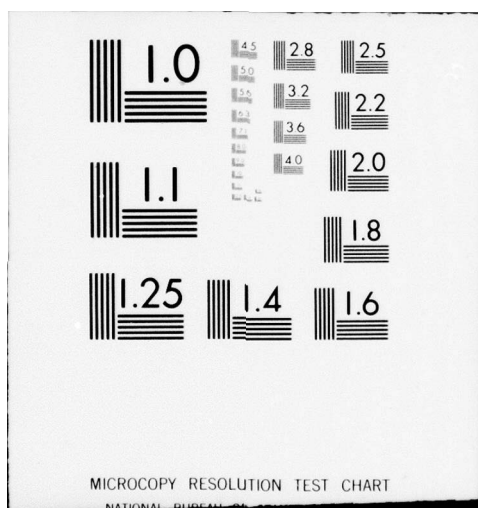


AD-A077 183 NIELSEN ENGINEERING AND RESEARCH INC MOUNTAIN VIEW CALIF F/G 20/4
DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS A--ETC(U)
MAY 78 S S STAHARA, A J CRISALLI F44620-75-C-0047
UNCLASSIFIED NEAR-TR-163-VOL-2 AFOSR-TR-79-1071 N/L

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4. TITLE (and Subtitle) DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS ABOUT WING-BODY/PYLON/STORE COMBINATIONS VOLUME II.-FLOW FIELD SURVEY DATA FOR CONFIGURATIONS 21 AND 22	5. TYPE OF REPORT & PERIOD COVERED INTERIM 14 Feb 78 - 22 Feb 78	
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REPRODUCED BY NATIONAL TECHNICAL INFORMATION SERVICE U.S. DEPARTMENT OF COMMERCE SPRINGFIELD, VA. 22161		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Results are presented for transonic wind tunnel tests conducted in the 4T Wind Tunnel at Arnold Engineering and Development Center for various wing-body/pylon/store model combinations. Experimental data were obtained at 0, 2, and 5 degrees angle of attack of the model combinations and at Mach numbers of 0.925, 0.950, 1.03, and 1.10 in the transonic range. Pylon and store models were attached to a wing-body combination in two separate, systematic model build-up sequences. At each stage of the first sequence, flow velocities and static pressures were obtained in the vicinity of the store or those regions normally occupied by a store while		

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force; moment and surface pressure measurements were taken on the wing-body model. Also, flow velocities and static pressure were recorded on a cylindrical control surface far from the tunnel centerline to provide outer flow field conditions. The second model build-up sequence involved a special pressure-instrumented store that was mounted on the captive trajectory system for simulating a separating store. Detailed pressure distributions and loading were obtained on the store.

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Data Report for a Test Program to Study Transonic Flow Fields About
Wing-Body/Pylon/Store Combinations Volume II.-Flow Field Survey Data
for Configurations 21 and 22

S. S. Stahara, et al

Nielsen Engineering & Research, Inc
Mountain View, California

May 1978

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DATA REPORT FOR A TEST PROGRAM TO STUDY
TRANSONIC FLOW FIELDS ABOUT WING-BODY/
PYLON/STORE COMBINATIONS.

VOLUME II. FLOW FIELD SURVEY DATA
FOR CONFIGURATIONS 21 and 22 .

by

S. S./Stahara and A. J./Crisalli

NEAR-TR-163

May 1978

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NOMENCLATURE

AAL	local upwash angle referenced to body-axis coordinates, calculated from probe measurements, deg
AATL	local upwash angle referenced to tunnel-axis coordinates, calculated from probe measurements, deg
ALFA	wing-body angle of attack, positive nose up as seen by the pilot, deg
ALFAS	angle of attack of the CTS mounted store or probe positive nose up as seen by the pilot, deg
A_n	pressure store projected planform area of nth element $A_n = \frac{\Delta \phi r(x)}{S}$
AW	wing-body planform area, 0.444 ft ²
b	wing span of wing body, 16.0 in.
B_n	pressure store projected frontal area of nth element $B_n = \frac{\Delta \phi r(x) dr/dx}{S}$
CA	axial-force coefficient, positive downstream as seen by the pilot; for wing-body, CA = axial force/[(Q) (AW)]; for pressure store, $CA = D_1 \sum_{\phi=-175}^{175} CP_1 + \sum_{n=2}^5 (CAX)_n D_n$
CAB	base axial-force coefficient
CAF	forebody axial-force coefficient
CAX, CAX _n	pressure store axial-force distribution per foot $CAX = CAX_n = B_n \sum_{\phi=-175}^{175} CP_n, \quad n = 1 \text{ to } 5$
CLL	rolling-moment coefficient, positive vector upstream as seen by the pilot, CLL = moment/[(Q) (AW) (b)]
CLM	pitching-moment coefficient, positive vector to right as seen by the pilot; for wing-body, CLM = moment/[(Q) (AW) (MAC)]; for pressure store, $CLM = \sum_{n=2}^{19} (CLMX)_n G_n$
CLMF	forebody pitching-moment coefficient

CLMX_n pressure store pitching-moment distribution per foot,

$$\text{CLMX}_n = (x/d)_n (\text{CNX})_n$$

CLN yawing-moment coefficient, positive vector down as seen by the pilot; for wing-body, $\text{CLN} = \text{moment}/[(Q)(AW)(b)]$;
 for pressure store,
$$\text{CLN} = \sum_{n=2}^{19} (\text{CLNX})_n$$

CLNX_n pressure store yawing-moment distribution per foot,

$$\text{CLNX}_n = (x/d)_n (\text{CYX})_n$$

CN normal-force coefficient, positive up as seen by pilot; for wing-body, $\text{CN} = \text{normal force}/[(Q)(AW)(\text{MAC})]$; for pressure store,
$$\text{CN} = \sum_{n=2}^{19} (\text{CNX})_n G_n$$

CNF forebody normal-force coefficient

CNX pressure store normal-force distribution per foot,

$$\text{CNX}_n = -A_n \sum_{\phi=-175}^{175} \text{CP}_n \cos \phi, n = 2 \text{ to } 19$$

CONFIG wing-body loading designation

CPL local pressure coefficient, calculated from probe measurements

CP_n pressure store pressure coefficient, $n = 1 \text{ to } 19$

CPS_n wing-body surface pressure coefficient, $n = 1 \text{ to } 25$

CY side-force coefficient, positive to the right as seen by the pilot; for wing-body, $\text{CY} = \text{side force}/[(Q)(AW)]$;
 for pressure store,
$$\text{CY} = \sum_{n=2}^{19} (\text{CYX})_n G_n$$

CYX pressure store side-force distribution per foot

$$\text{CYX}_n = -A_n \sum_{\phi=-175}^{175} \text{CP}_n \sin \phi, n = 2 \text{ to } 19$$

DATE calendar time at which data were recorded

D_n length of nth element in X direction for axial-force calculation

DPHI	roll angle between the pressure store orifice (X-Z) plane and the wing-body X-Z plane, positive clockwise looking upstream
dr/dx	pressure store local surface slope
G_n	length of nth element in X direction
MAC	mean aerodynamic chord for wing-body, 5.344 in.
MACH (M)	wind tunnel free-stream Mach number
ML	local Mach number calculated from probe measurements
M1,M2,M3,M4	free stream Mach numbers. Nominally, M1 = 0.925, M2 = 0.950, M3 = 1.05, M4 = 1.10
M_∞	free stream Mach number
P	wind tunnel free-stream static pressure, psfa
PART	sequential indexing number for referencing data. A constant throughout each survey
PBAR	atmospheric pressure, psfa
PL	local static pressure calculated from probe measurements, psfa
POINT	sequential indexing number for referencing data obtained during one part. Indexes each time a new set of data inputs is obtained
PTL	local total pressure measured by probe, psfa
Q	wind tunnel free-stream dynamic pressure, psfa
$Re \times 10^{-6}$	wind tunnel free-stream Reynolds number, millions per foot
r(x)	pressure store local body radius at orifice location "X"
S	pressure store maximum cross-sectional area, 0.003068 ft ²
SURVEY	identifier for specific user table-survey combination
SWL	local sidewash angle referenced to body axis coordinates, calculated from probe measurements
SWTL	local sidewash angle referenced to tunnel axis
TEST	alpha-numeric notation for referencing a specific test program in a specific test unit

TT	wind tunnel free-stream total temperature, °F
UL,VL,WL	velocity components in the body axis X, Y, and Z directions, respectively, calculated from probe measurements, ft/sec
UT,VT,WT	velocity components in the tunnel-axis X, Y, and Z directions, respectively, calculated from probe measurements, ft/sec
V1 (VM)	wind tunnel free-stream velocity, ft/sec
X,Y,Z	body-fixed Cartesian coordinate system with origin at the nose of the aircraft model, and orientation such that the X axis is directed downstream and coincident with the longitudinal body axis, the Y axis directed to the left as viewed by a tunnel observer looking upstream, and the Z axis directed vertically downward in the tunnel
XS	axial distance along the pressure store, measured from the nose, ft
XT,YT,ZT	tunnel-fixed Cartesian coordinate system directed parallel and perpendicular to the tunnel centerline. The origin is coincident with the aircraft model nose at zero angle of attack. Positive directions are identical to the body axis system
x/d	characteristic dimension from midpoint of pressure store
α	model angle of attack, deg
$\Delta\phi$	pressure store roll increment between data points, 10 deg

DATA REPORT FOR A TEST PROGRAM TO STUDY
TRANSONIC FLOW FIELDS ABOUT WING-BODY/
PYLON/STORE COMBINATIONS

VOLUME II.- FLOW FIELD SURVEY DATA
FOR CONFIGURATIONS 21 AND 22

1. INTRODUCTION

This volume of the data report presents the flow-field survey data for configurations 21 and 22 at Mach numbers $M1 = 0.925$, $M2 = 0.950$, and $M3 = 1.05$ and angles of attack $\alpha = 0^\circ$, 2° , and 5° . The data were obtained in the 4T Wind Tunnel at Arnold Engineering and Development Center. These tests, performed at a nominal Reynolds number per foot of 3.0×10^6 , are indexed and outlined in Tables I through III of this volume. The tabulated data are contained on pages 1 through 222 of this volume.

2. DESCRIPTION OF TESTS

A general description of the test program as well as the details of the test hardware, coordinate systems, data uncertainties and other details associated with these tests are provided in Volume I of this data report.

Figure 1 provides the geometric details of the wing-body model tested. Planform and cross-sectional views of the wing-body in combination with pylons and attached stores are shown in figure 2, together with (X,Y) and (Y,Z) body-fixed coordinates which define the positions of the wings, pylons, stores and other locations of geometric interest. As discussed in Volume I, the actual measured coordinates differ slightly from the idealized blue-print coordinates shown in figure 2. See Volume I for details.

The various configurations of the wing-body pylons and stores used in the flow-field survey tests are shown in figure 3, where they are numbered 21, 22, 24, 25, and 26. The diagrams shown in figure 3 represent cross-sectional views of the model configurations from the standpoint of a wind-tunnel observer looking upstream from the rear of the model. The wing-body, pylons and dummy stores are clearly

indicated. The pressure store is not used in these configurations. The symbols "X" in figure 3 represent a cross-sectional view of the measurement (Y,Z) grid positions at which the conical probe was used to obtain inner flow field measurements while traversing in the longitudinal direction. Figure 4 shows the longitudinal extent of the general inner flow field grid layout, together with a detailed cross-sectional view of the general inner flow field grid layout. The specific grid (shown in figure 3) which is used for a given configuration is a subset of the grid layout shown in figure 4.

In addition to the above described inner flow-field grids, an outer flow-field grid was used to obtain outer flow-field surveys for configurations 21, 22, 24, and 25. The outer flow-field grid was the same for all configurations and is illustrated in figure 5. The outer flow-field grid layout is designed to give outer flow-field data at constant radial distance from the tunnel centerline for two values of the azimuthal angle.

The flow field data was obtained using the conical probe described in Volume I to determine flow-field velocity components and upwash and sidewash angles, as well as other flow quantities of interest. The velocities and angles were calculated using five pressures measured with the probe, including the pitot pressure, from an orifice located on the tip of the probe, and two orthogonal pairs of surface pressures from four orifices located on the conical portion of the probe. These pressures are used to deduce the other local-flow quantities, such as Mach number and total pressure.

3. DESCRIPTION OF DATA

Volume II contains all inner and outer flow-field survey data for configurations 21 and 22. Table I contains a summary of the data contained in Volume II together with the page numbers and reference tables in Volume II corresponding to the data. Table II is a reference table which gives the page numbers in Volume II of the inner flow-field survey data for configurations 21 and 22 at the various Mach numbers and angles of attack. Column 1 of Table II

indicates the configuration (21 or 22), columns 2, 3 and 4 indicate the initial and final positions and the incremental change in the X coordinate of the probe static pressure orifices. Columns 5 and 6 indicate the Y and Z coordinates, respectively, of the probe longitudinal centerline. The remaining columns of Table II indicate the Mach numbers and angle of attack at which the test was carried out.

Table III is another reference table which gives the page numbers in Volume II of the outer flow-field survey data for configurations 21 and 22 at the various Mach numbers and angles of attack. The description of Table III is the same as that of Table II, with the exception that tunnel-axis coordinates (XT, YT, ZT) are used instead of body-axis coordinates (X,Y,Z).

The inner flow-field survey data for configurations 21 and 22 are presented in tabular form in this volume on pages 1 through 186. The heading on each page contains the test number, the part number, the Reynolds number per foot, the angle of attack of the model, the configuration number (21 or 22), the survey number and the angle of attack of the CTS pressure probe (nominally the same as the model angle of attack).

Below the heading information are the data obtained during each test. The first four columns indicate the sequential indexing number for referencing data obtained during one part (POINT) and the location of the probe in the body-fixed X, Y, or Z coordinates. (The body-fixed coordinate system is illustrated in figure 6.) The wind tunnel free-stream quantities are in columns five through nine, and are Mach number (M), velocity (VM, ft/sec), total pressure (PT, psfa), dynamic pressure (Q, psf), and total temperature (TT, °F). Following these quantities are local quantities as measured by the probe or calculated from probe measurements. These local quantities are Mach number (ML), the ratio of local to free-stream velocity (VML/VM), the ratio of local to free-stream total pressure (PTL/PT), pressure coefficient (CPL), the ratio of local velocity components in the body-fixed X, Y, and Z coordinates, respectively to the free-stream velocity (UL/VM,

VL/VM and WL/VM, respectively), and the upwash and sidewash angles referenced to body-axis coordinates (AAL and SWL, respectively). The positive sense of the upwash and sidewash is shown in figure 7.

The outer flow-field survey data for configurations 21 and 22 are presented in tabular form in this volume on pages 187 through 222. The description of this data tabulation is identical to that of the inner flow-field data tabulation, with the exception that the probe position, the upwash and the sidewash are referenced to the tunnel-fixed coordinate system which is illustrated in figure 8. We note that the quantity ALPHAS, representing the angle of attack of the CTS mounted probe, which appears in the heading of the data page will always be nominally zero for the outer flow-field surveys.

TABLE I.- SUMMARY OF TABULATED
DATA IN VOLUME II

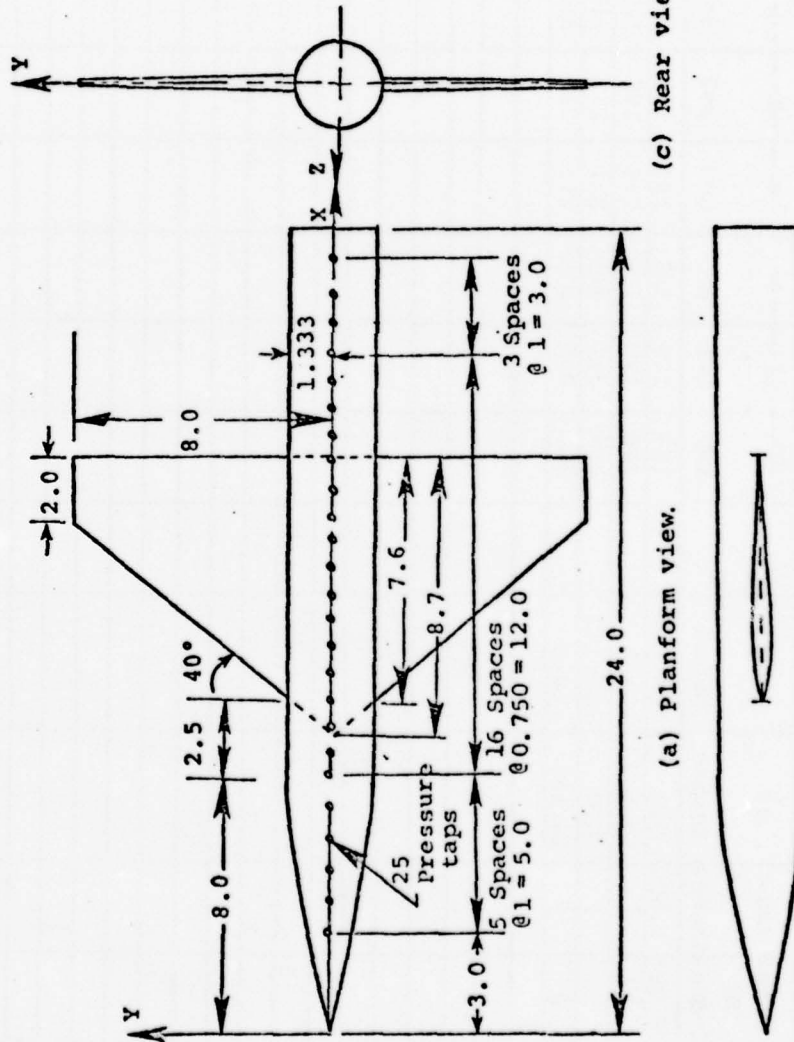
$$Re/ft = 3.0 \times 10^6$$

Reference Table	Test	Pages
II	Inner flow-field surveys for configuration 21 and 22	1-186
III	Outer flow-field surveys for configurations 21 and 22	187-222

TABLE III.- OUTER FLOW-FIELD SURVEY DATA FOR CONFIGURATIONS 21 AND 22

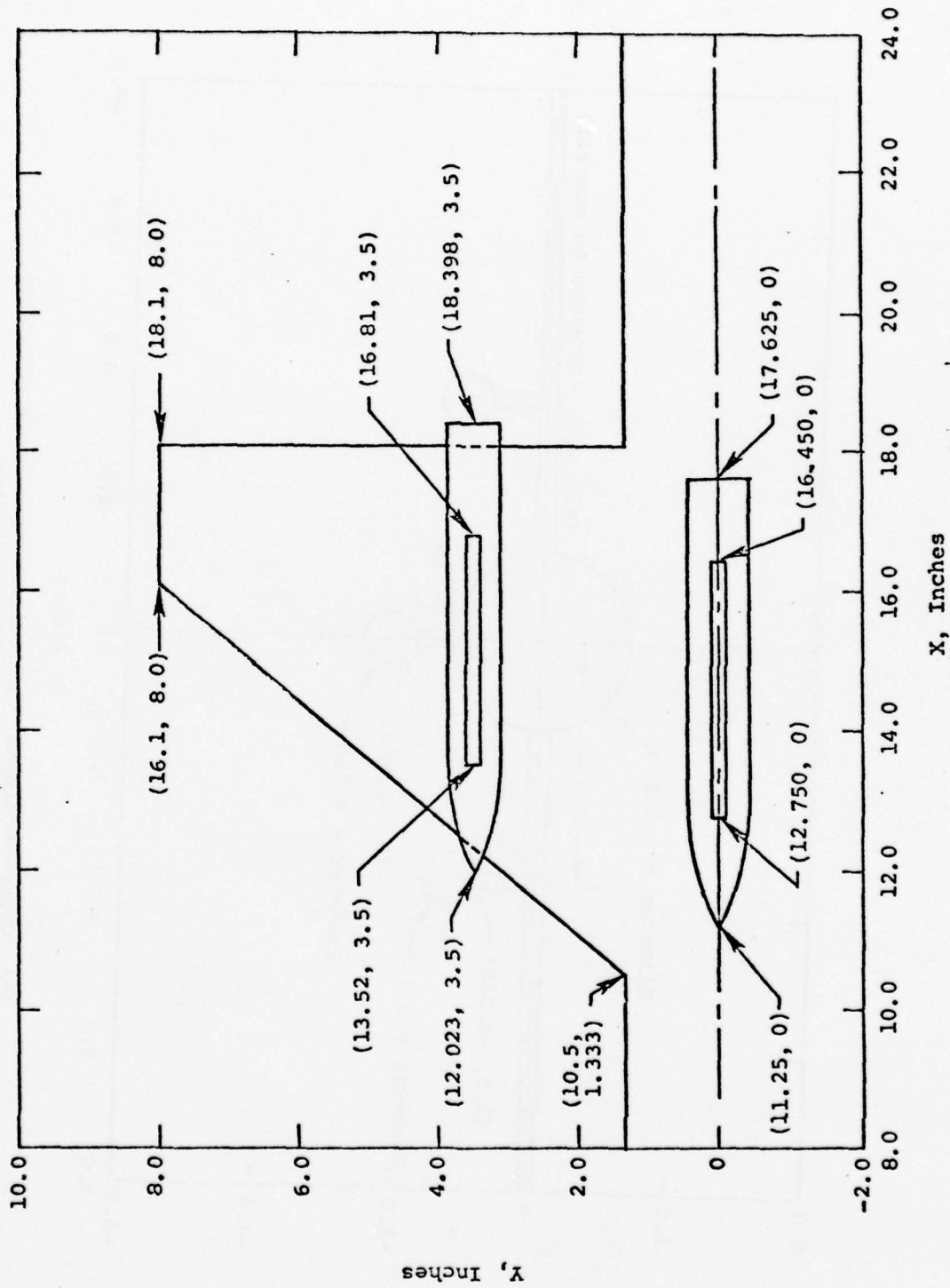
[illegible]

BODY COORDINATES	
$x, \text{ in.}$	$r, \text{ in.}$
0	0
0.5	0.162
1.0	0.313
1.5	0.453
2.0	0.583
2.5	0.703
3.0	0.813
3.5	0.912
4.0	1.000
4.5	1.078
5.0	1.146
5.5	1.203
6.0	1.250
6.5	1.287
7.0	1.313
7.5	1.328
8.0	1.333
24.0	1.333



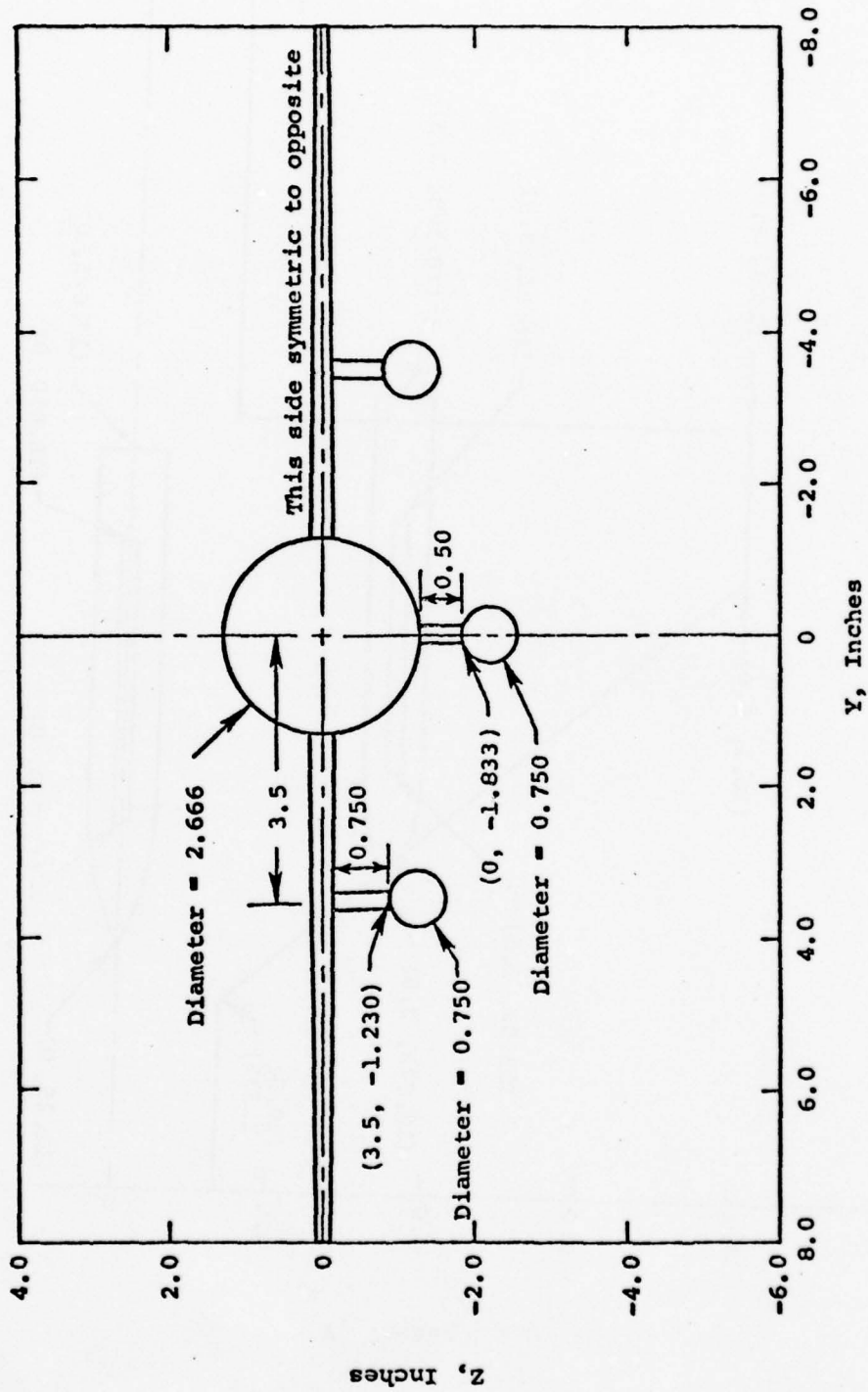
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Figure 1.-Wing-body combination.



(a) Planform view, including (X,Y) coordinates.

Figure 2.-Wing-body with pylons and stores, including body-fixed coordinates.



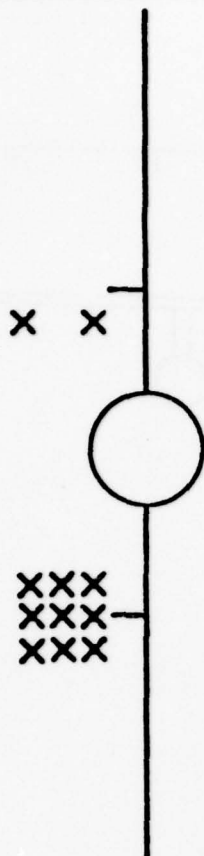
(b) Cross-sectional view (viewed from front of model), including (Y,Z) coordinates.

Figure 2.-Concluded.

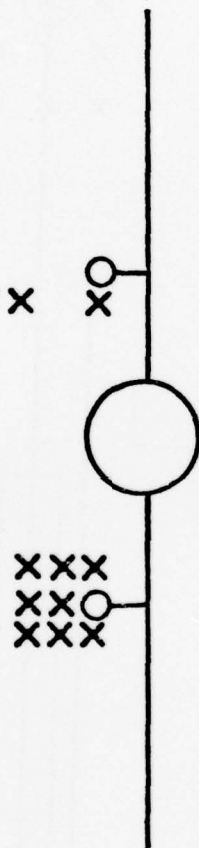
Configuration 21



Configuration 22

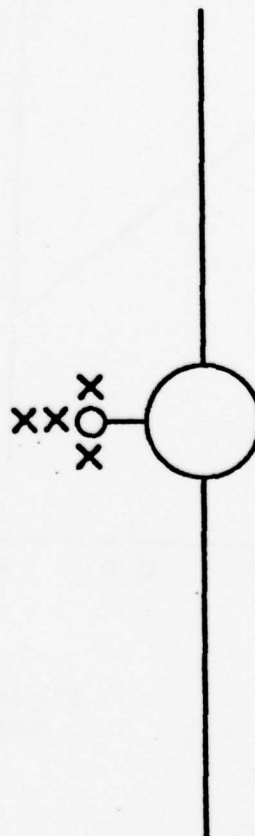


Configuration 24



II-11

Configuration 25



Configuration 26

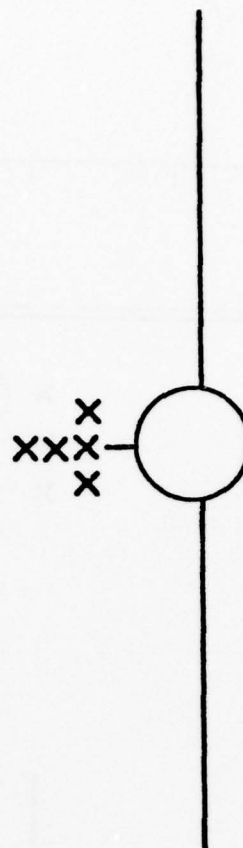


Figure 3. - Cross-sectional illustration of configurations 21, 22, 24, 25 and 26 viewed from rear of model.

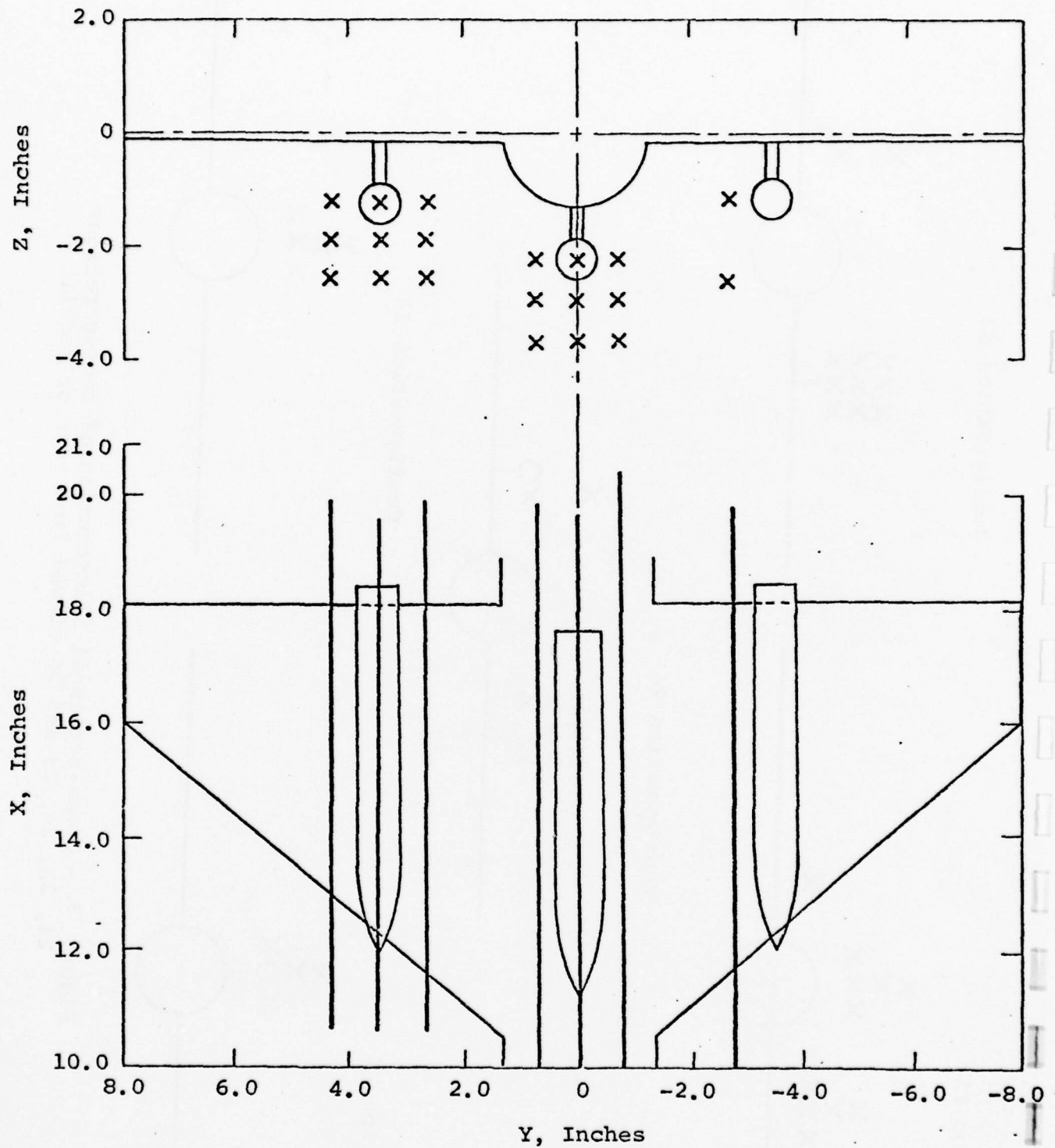
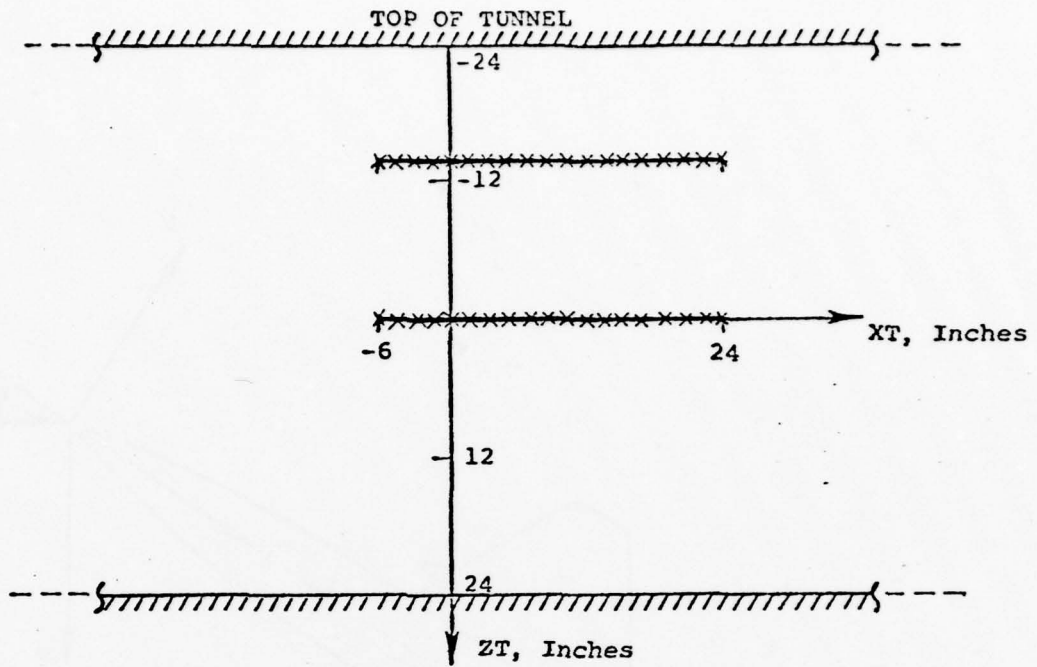
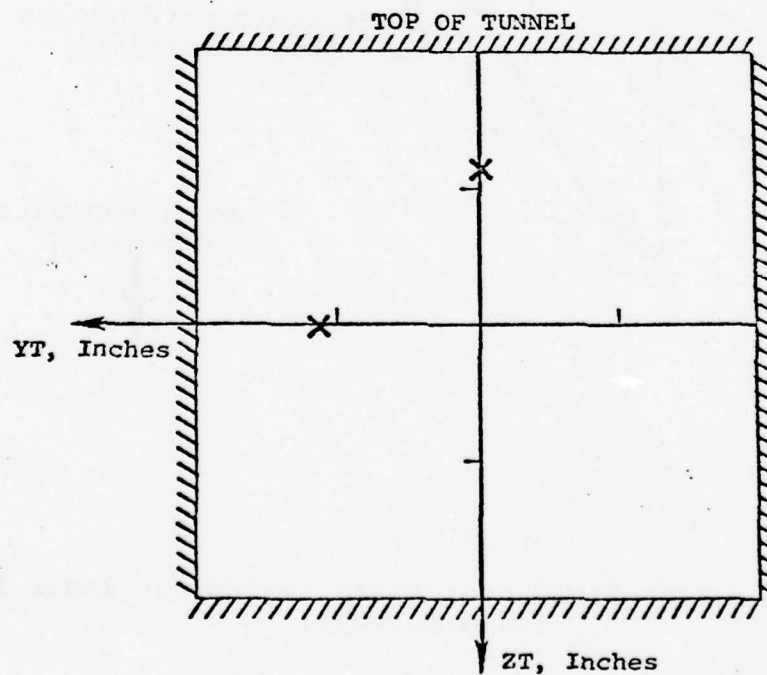


Figure 4.- General grid for inner flow-field measurements showing longitudinal extent and cross-sectional view of grid.



(a) XT Traverse in XT, ZT plane.



(b) XT Traverse in YT, ZT plane.

Figure 5.- General grids for outer flow-field surveys.

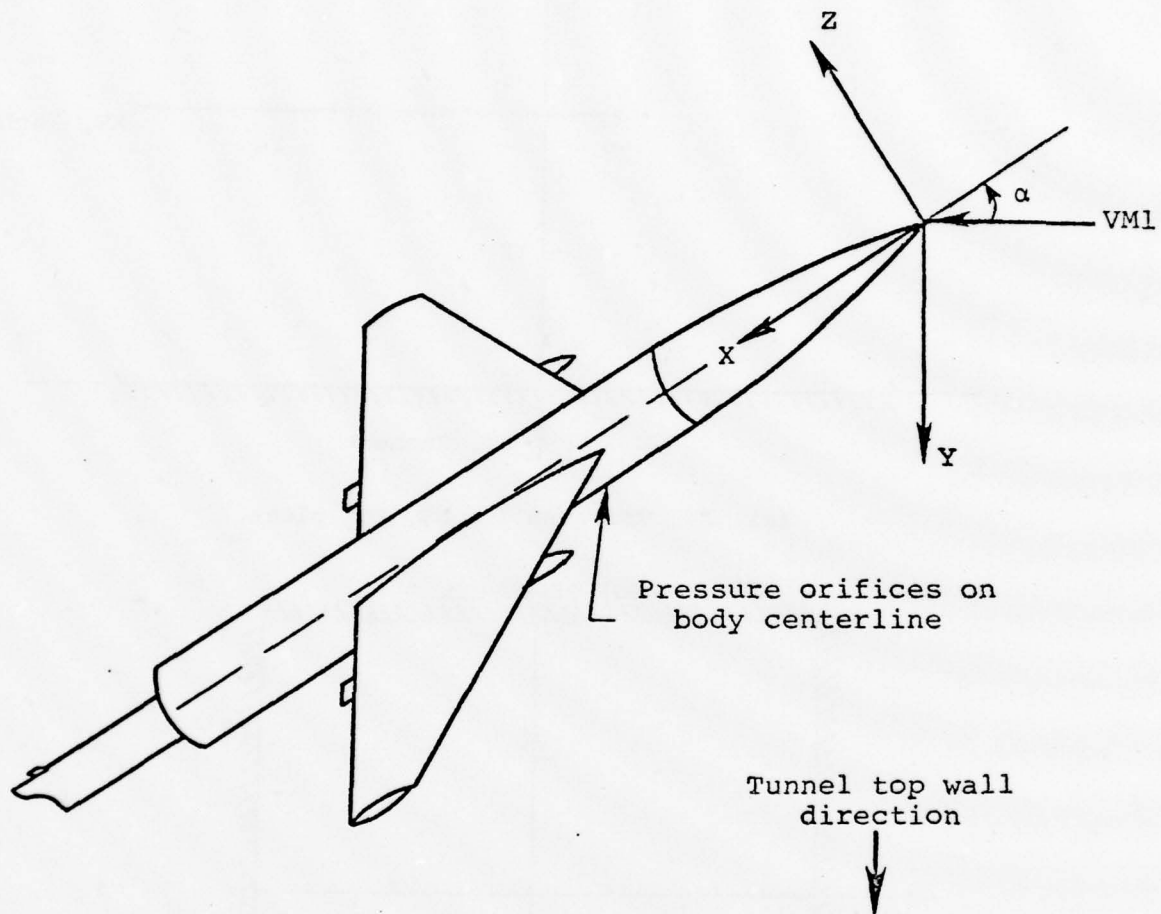


Figure 6.- Body-fixed coordinate system for inner flow field surveys.

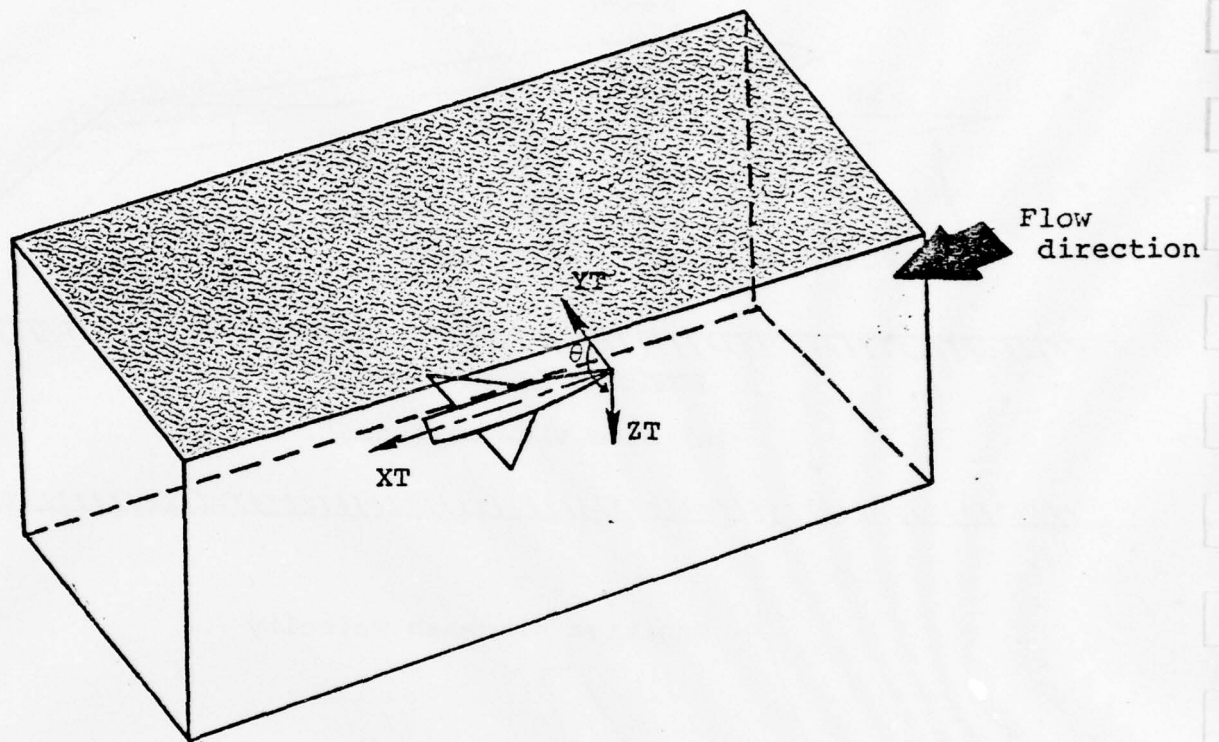


Figure 8.- Tunnel-fixed system for tunnel-empty and outer flow field surveys.

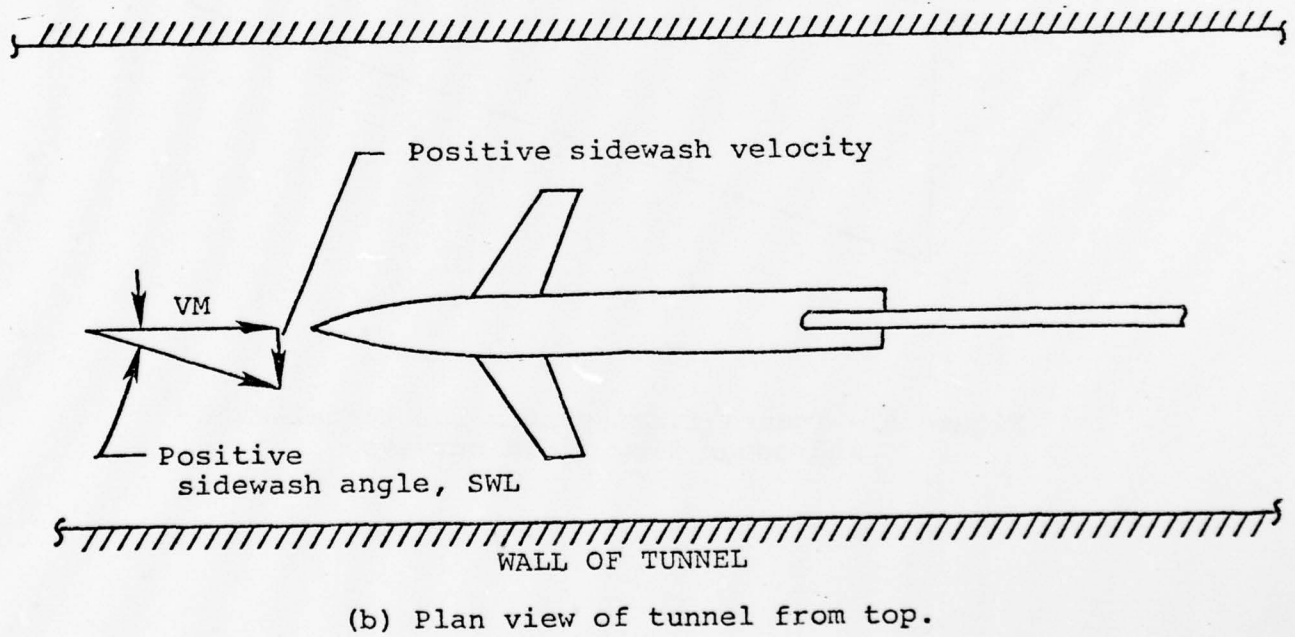
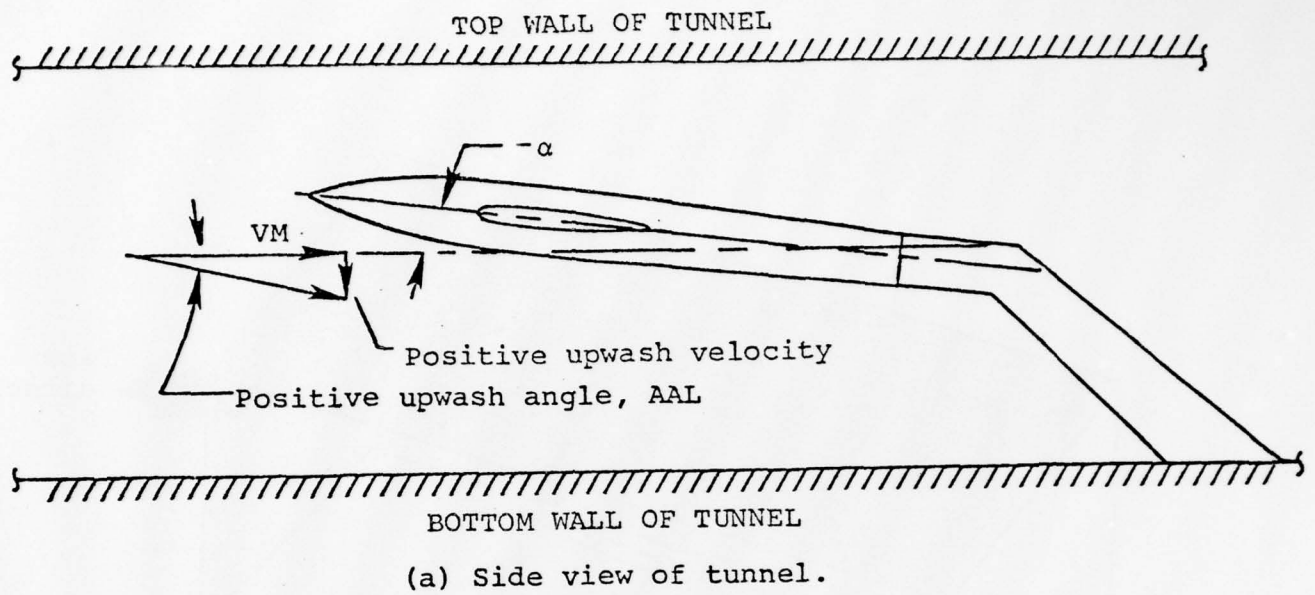


Figure 7.- Pictorial sign convention for upwash and sidewash angles.

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POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
9	10.500	4.250	-1.230	0.927	979.4	1460.3	504.0	85.1	0.923	0.997	1.000	0.006	0.997	0.006	-0.007	-0.39	0.34
10	11.166	4.250	-1.230	0.928	980.7	1461.7	505.2	85.2	0.919	0.991	0.999	0.017	0.991	0.009	-0.010	-0.55	0.54
11	11.832	4.250	-1.230	0.925	977.7	1461.0	503.1	85.3	0.915	0.991	1.000	0.018	0.991	0.012	-0.015	-0.84	0.68
12	12.498	4.250	-1.230	0.926	979.2	1462.7	504.6	85.4	0.917	0.992	0.999	0.014	0.992	0.013	-0.022	-1.28	0.75
13	13.164	4.250	-1.230	0.927	980.5	1462.4	505.2	85.5	0.927	0.999	0.999	-0.000	0.999	0.009	-0.030	-1.72	0.50
14	13.830	4.250	-1.230	0.925	978.4	1463.0	504.2	85.5	0.946	1.019	0.999	-0.040	1.019	-0.001	-0.031	-1.77	-0.07
15	14.496	4.250	-1.230	0.927	979.8	1461.9	504.6	85.6	0.970	1.039	0.999	-0.080	1.039	-0.009	-0.025	-1.35	-0.50
16	15.162	4.250	-1.230	0.929	981.7	1461.2	505.4	85.6	0.992	1.057	0.999	-0.115	1.057	-0.014	-0.015	-0.81	-0.75
17	15.828	4.250	-1.230	0.926	979.4	1462.9	504.7	85.6	1.012	1.077	0.999	-0.156	1.077	-0.015	-0.004	-0.20	-0.62
18	16.494	4.250	-1.230	0.928	981.4	1462.2	505.6	85.5	1.034	1.095	0.999	-0.191	1.095	-0.016	0.010	0.55	-0.85
19	17.160	4.250	-1.230	0.927	980.2	1461.7	504.7	85.6	1.098	1.091	1.000	-0.182	1.090	-0.014	0.033	1.75	-0.74
20	17.826	4.250	-1.230	0.928	981.3	1462.5	505.7	85.6	0.926	0.998	0.999	0.003	0.997	-0.011	0.032	1.81	-0.61
21	18.492	4.250	-1.230	0.928	980.9	1461.9	505.2	85.5	0.899	0.974	1.000	0.053	0.973	-0.009	0.019	1.10	-0.53
22	19.158	4.250	-1.230	0.928	980.8	1462.4	505.2	85.7	0.902	0.976	0.999	0.045	0.976	-0.007	0.011	0.65	-0.43
24	19.824	4.250	-1.230	0.928	981.1	1456.4	504.3	85.2	0.913	0.986	0.999	0.027	0.986	-0.007	0.008	0.46	-0.41

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TC-532 659 2.99H 0.00 21 904 0.02

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	N	VM	PT	O	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	KL/VM	AAL	SWL
1	10.500	3.500	-2.730	0.924	0.924	973.7	1448.5	498.4	81.7	0.923	1.000	0.999	-0.001	1.000	0.003	-0.009	-0.52	0.18
2	10.833	3.500	-2.730	0.924	0.924	973.6	1447.0	497.9	81.6	0.921	0.997	1.000	0.005	0.997	0.004	-0.011	-0.62	0.20
3	11.166	3.500	-2.730	0.925	0.925	975.0	1449.2	499.4	81.7	0.922	0.997	0.999	0.004	0.997	0.004	-0.012	-0.71	0.20
4	11.499	3.500	-2.730	0.925	0.925	974.7	1447.2	498.6	81.5	0.921	0.997	0.999	0.005	0.997	0.004	-0.014	-0.81	0.23
5	11.832	3.500	-2.730	0.925	0.925	974.9	1447.2	498.7	81.6	0.924	0.999	1.000	0.002	0.999	0.004	-0.016	-0.89	0.20
6	12.165	3.500	-2.730	0.927	0.927	976.5	1449.0	500.3	81.6	0.928	1.001	1.000	-0.002	1.001	0.003	-0.017	-0.97	0.20
7	12.498	3.500	-2.730	0.928	0.928	977.0	1448.4	500.4	81.5	0.932	1.004	0.999	-0.009	1.004	0.002	-0.018	-1.02	0.13
8	12.831	3.500	-2.730	0.925	0.925	974.6	1446.8	499.2	81.4	0.933	1.008	0.999	-0.017	1.008	0.001	-0.018	-1.01	0.07
9	13.164	3.500	-2.730	0.926	0.926	975.2	1448.1	499.2	81.5	0.939	1.013	1.000	-0.026	1.012	0.000	-0.018	-1.00	0.02
10	13.497	3.500	-2.730	0.926	0.926	975.5	1447.7	499.4	81.4	0.946	1.019	1.000	-0.038	1.019	-0.001	-0.018	-1.00	-0.04
11	13.830	3.500	-2.730	0.927	0.927	976.4	1446.6	499.4	81.5	0.952	1.023	1.000	-0.046	1.023	-0.002	-0.017	-0.94	-0.13
12	14.163	3.500	-2.730	0.927	0.927	976.7	1447.4	499.9	81.6	0.960	1.030	1.000	-0.060	1.030	-0.003	-0.015	-0.86	-0.19
13	14.496	3.500	-2.730	0.925	0.925	975.1	1446.3	499.1	81.7	0.964	1.036	0.999	-0.073	1.036	-0.004	-0.014	-0.75	-0.25
14	14.829	3.500	-2.730	0.927	0.927	976.1	1447.8	499.7	81.5	0.971	1.041	0.999	-0.082	1.041	-0.005	-0.011	-0.60	-0.30
15	15.162	3.500	-2.730	0.927	0.927	976.9	1446.9	499.8	81.6	0.979	1.047	1.000	-0.094	1.047	-0.006	-0.008	-0.45	-0.34
16	15.495	3.500	-2.730	0.923	0.923	973.1	1448.0	498.0	81.6	0.979	1.051	0.999	-0.104	1.051	-0.007	-0.004	-0.24	-0.38
17	15.828	3.500	-2.730	0.926	0.926	975.8	1449.3	499.9	81.7	0.991	1.059	0.999	-0.119	1.059	-0.007	-0.000	-0.02	-0.40
18	16.161	3.500	-2.730	0.927	0.927	976.2	1447.5	499.7	81.4	0.998	1.064	0.999	-0.130	1.064	-0.007	0.005	0.25	-0.39
19	16.494	3.500	-2.730	0.929	0.929	977.8	1447.3	500.5	81.4	1.007	1.071	1.000	-0.143	1.071	-0.007	0.009	0.49	-0.38
20	16.827	3.500	-2.730	0.926	0.926	976.0	1449.4	500.2	81.5	1.005	1.071	0.999	-0.143	1.071	-0.006	0.016	0.85	-0.33
21	17.160	3.500	-2.730	0.928	0.928	977.2	1448.1	500.5	81.4	0.983	1.050	0.999	-0.102	1.050	-0.005	0.019	1.05	-0.29
22	17.493	3.500	-2.730	0.930	0.930	978.8	1447.6	501.2	81.4	0.960	1.028	0.999	-0.057	1.028	-0.005	0.020	1.11	-0.27
23	17.826	3.500	-2.730	0.927	0.927	976.8	1447.9	500.1	81.6	0.939	1.011	1.000	-0.023	1.011	-0.005	0.019	1.05	-0.25
24	18.159	3.500	-2.730	0.928	0.928	977.5	1447.7	500.5	81.5	0.927	0.999	0.999	0.001	0.999	-0.004	0.016	0.93	-0.26
25	18.492	3.500	-2.730	0.928	0.928	977.3	1448.8	500.7	81.5	0.920	0.992	0.999	0.014	0.992	-0.005	0.013	0.75	-0.27
26	18.825	3.500	-2.730	0.927	0.927	976.6	1447.6	499.9	81.6	0.916	0.990	0.999	0.019	0.990	-0.004	0.011	0.61	-0.25
27	19.158	3.500	-2.730	0.929	0.929	978.2	1448.4	501.1	81.5	0.917	0.989	0.999	0.020	0.989	-0.004	0.009	0.50	-0.24
28	19.491	3.500	-2.730	0.928	0.928	977.3	1448.1	500.4	81.6	0.917	0.990	0.999	0.018	0.990	-0.004	0.007	0.39	-0.23

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PIRT REA10-6 ALPHA CONFIG SURVEY ALFAS TC-532 657 3.006 0.00 21 902 0.01

DATE 2-21-78 AEDC PROPULSION WIND TUNNEL TRANSOMIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	3.500	-1.980	0.928	978.5	1452.6	502.3	82.4	0.923	0.995	0.999	0.008	0.995	0.004	-0.010	-0.55	0.25
2	10.833	3.500	-1.980	0.929	979.2	1450.2	501.8	82.4	0.921	0.993	0.999	0.014	0.992	0.005	-0.011	-0.65	0.29
3	11.166	3.500	-1.980	0.928	978.3	1449.8	501.3	82.2	0.921	0.994	1.000	0.013	0.993	0.006	-0.014	-0.78	0.33
4	11.499	3.500	-1.980	0.930	979.3	1450.7	502.3	82.0	0.921	0.992	0.999	0.014	0.992	0.007	-0.016	-0.92	0.38
5	11.832	3.500	-1.980	0.925	975.2	1449.8	499.6	81.9	0.918	0.994	0.999	0.012	0.993	0.006	-0.018	-1.06	0.36
6	12.165	3.500	-1.980	0.927	976.5	1450.8	500.8	81.9	0.924	0.997	0.999	0.004	0.997	0.006	-0.021	-1.19	0.33
7	12.498	3.500	-1.980	0.927	976.6	1448.2	500.0	81.8	0.927	1.000	0.999	-0.001	1.000	0.004	-0.022	-1.28	0.23
8	12.831	3.500	-1.980	0.927	977.0	1449.0	500.5	81.7	0.935	1.007	1.000	-0.014	1.006	0.002	-0.023	-1.33	0.14
9	13.164	3.500	-1.980	0.928	977.7	1447.7	500.5	81.7	0.939	1.010	0.999	-0.022	1.010	0.001	-0.023	-1.33	0.05
10	13.497	3.500	-1.980	0.926	975.5	1449.3	499.7	81.7	0.947	1.019	0.999	-0.040	1.019	-0.001	-0.023	-1.29	-0.07
11	13.830	3.500	-1.980	0.926	975.9	1448.0	499.5	81.7	0.954	1.025	0.999	-0.051	1.025	-0.003	-0.021	-1.15	-0.19
12	14.163	3.500	-1.980	0.928	977.3	1448.9	500.8	81.5	0.964	1.033	0.999	-0.067	1.032	-0.005	-0.019	-1.04	-0.30
13	14.496	3.500	-1.980	0.928	977.5	1447.8	500.5	81.5	0.971	1.039	0.999	-0.079	1.039	-0.006	-0.016	-0.88	-0.36
14	14.829	3.500	-1.980	0.928	977.0	1448.9	500.6	81.4	0.979	1.046	0.999	-0.094	1.046	-0.007	-0.013	-0.69	-0.41
15	15.162	3.500	-1.980	0.928	977.4	1447.3	500.3	81.4	0.986	1.052	1.000	-0.105	1.052	-0.009	-0.009	-0.47	-0.48
16	15.495	3.500	-1.980	0.925	974.7	1447.3	498.8	81.3	0.992	1.061	0.999	-0.123	1.061	-0.009	-0.004	-0.24	-0.50
17	15.828	3.500	-1.980	0.927	976.1	1447.1	499.6	81.3	1.001	1.068	0.999	-0.137	1.068	-0.010	0.000	0.02	-0.51
18	16.161	3.500	-1.980	0.924	973.5	1446.7	497.9	81.2	1.005	1.073	0.999	-0.149	1.073	-0.009	0.005	0.28	-0.49
19	16.494	3.500	-1.980	0.926	975.4	1448.5	499.6	81.3	1.020	1.085	0.999	-0.172	1.085	-0.009	0.012	0.62	-0.48
20	16.827	3.500	-1.980	0.928	977.2	1450.2	501.2	81.4	1.028	1.089	0.998	-0.182	1.089	-0.008	0.020	1.07	-0.44
21	17.160	3.500	-1.980	0.924	973.3	1448.7	498.4	81.4	0.985	1.056	1.000	-0.112	1.055	-0.007	0.026	1.40	-0.35
22	17.493	3.500	-1.980	0.926	975.8	1451.1	500.7	81.4	0.988	1.029	0.999	-0.059	1.028	-0.005	0.027	1.51	-0.30
23	17.826	3.500	-1.980	0.928	977.6	1450.1	501.4	81.5	0.935	1.006	0.999	-0.013	1.006	-0.005	0.024	1.38	-0.28
24	18.159	3.500	-1.980	0.928	977.3	1447.5	500.2	81.6	0.918	0.991	1.000	0.018	0.991	-0.005	0.021	1.20	-0.25
25	18.492	3.500	-1.980	0.927	976.8	1449.9	500.7	81.7	0.912	0.986	1.000	0.027	0.986	-0.005	0.016	0.92	-0.26
26	18.825	3.500	-1.980	0.927	977.0	1448.4	500.3	81.7	0.908	0.982	0.999	0.035	0.982	-0.004	0.012	0.71	-0.26
27	19.158	3.500	-1.980	0.929	978.1	1449.6	501.4	81.7	0.911	0.984	0.999	0.031	0.984	-0.005	0.010	0.56	-0.28
28	19.491	3.500	-1.980	0.929	978.1	1448.8	501.1	81.7	0.914	0.986	1.000	0.027	0.986	-0.004	0.008	0.44	-0.25

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART PEX10-6 ALFA CONFIG

TC-532 658 2.992 0.00 21

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PT/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	10.500	3.500	-1.230	0.921	970.8	1446.8	496.2	81.5	0.913	0.992	1.000	0.015	0.992	0.006	-0.009	-0.50	0.37
6	10.833	3.500	-1.230	0.923	972.7	1449.0	498.0	81.6	0.912	0.990	0.999	0.018	0.990	0.008	-0.011	-0.66	0.49
7	11.166	3.500	-1.230	0.923	972.8	1447.6	497.6	81.7	0.909	0.987	1.000	0.024	0.987	0.010	-0.014	-0.81	0.60
8	11.499	3.500	-1.230	0.923	973.1	1447.2	497.6	81.7	0.907	0.986	0.999	0.028	0.985	0.012	-0.017	-1.01	0.69
9	11.832	3.500	-1.230	0.924	973.8	1448.4	498.4	81.7	0.910	0.987	1.000	0.025	0.987	0.012	-0.022	-1.28	0.71
10	12.165	3.500	-1.230	0.925	975.2	1448.2	499.2	81.7	0.912	0.988	0.999	0.025	0.988	0.011	-0.027	-1.54	0.66
11	12.498	3.500	-1.230	0.926	975.3	1448.2	499.3	81.7	0.919	0.994	1.000	0.011	0.994	0.008	-0.031	-1.79	0.49
12	12.831	3.500	-1.230	0.927	976.5	1448.7	500.1	81.7	0.927	1.000	0.999	-0.001	0.999	0.005	-0.033	-1.90	0.26
13	13.164	3.500	-1.230	0.927	976.7	1446.9	499.6	81.7	0.935	1.007	1.000	-0.015	1.007	0.000	-0.033	-1.88	0.03
14	13.497	3.500	-1.230	0.927	977.0	1448.2	500.2	81.7	0.946	1.017	1.000	-0.035	1.017	-0.003	-0.032	-1.79	-0.19
15	13.830	3.500	-1.230	0.928	977.4	1447.9	500.4	81.7	0.959	1.028	1.000	-0.057	1.028	-0.006	-0.028	-1.56	-0.36
16	14.163	3.500	-1.230	0.926	975.2	1447.8	499.2	81.5	0.965	1.036	0.999	-0.073	1.036	-0.009	-0.024	-1.31	-0.48
17	14.496	3.500	-1.230	0.923	972.7	1448.1	497.8	81.6	0.970	1.043	0.999	-0.088	1.043	-0.010	-0.019	-1.06	-0.57
18	14.829	3.500	-1.230	0.923	973.3	1446.7	497.7	81.5	0.979	1.051	1.000	-0.103	1.051	-0.012	-0.015	-0.82	-0.65
19	15.162	3.500	-1.230	0.925	975.2	1448.3	499.3	81.6	0.990	1.059	0.999	-0.119	1.058	-0.012	-0.010	-0.53	-0.68
20	15.495	3.500	-1.230	0.927	976.3	1448.6	500.0	81.6	1.002	1.068	0.999	-0.138	1.068	-0.012	-0.005	-0.26	-0.67
21	15.828	3.500	-1.230	0.924	973.5	1448.5	498.4	81.5	1.008	1.077	0.999	-0.155	1.076	-0.013	0.002	0.08	-0.68
22	16.161	3.500	-1.230	0.925	974.5	1446.8	498.5	81.4	1.017	1.083	0.999	-0.167	1.083	-0.012	0.007	0.36	-0.64
23	16.494	3.500	-1.230	0.927	976.6	1448.6	500.3	81.4	1.034	1.096	0.999	-0.195	1.096	-0.013	0.016	0.83	-0.67
24	16.827	3.500	-1.230	0.929	977.9	1448.1	500.9	81.4	1.041	1.101	0.999	-0.204	1.100	-0.011	0.027	1.41	-0.59
25	17.160	3.500	-1.230	0.926	975.4	1448.0	499.4	81.4	1.016	1.081	1.000	-0.163	1.081	-0.008	0.035	1.86	-0.44
26	17.493	3.500	-1.230	0.928	977.7	1448.6	500.8	81.6	0.961	1.030	0.999	-0.062	1.030	-0.006	0.036	2.00	-0.34
27	17.826	3.500	-1.230	0.924	973.6	1446.7	497.8	81.6	0.918	0.995	1.000	0.010	0.994	-0.006	0.032	1.83	-0.34
28	18.159	3.500	-1.230	0.926	975.8	1448.7	499.8	81.5	0.902	0.977	0.999	0.043	0.977	-0.005	0.025	1.44	-0.32
29	18.492	3.500	-1.230	0.928	977.0	1447.3	500.1	81.4	0.896	0.971	0.999	0.057	0.971	-0.006	0.018	1.08	-0.33
30	18.825	3.500	-1.230	0.926	976.1	1448.5	499.8	81.7	0.898	0.974	1.000	0.051	0.974	-0.005	0.014	0.81	-0.29
31	19.158	3.500	-1.230	0.928	977.7	1448.8	500.9	81.6	0.903	0.977	0.999	0.045	0.977	-0.005	0.011	0.63	-0.29
32	19.491	3.500	-1.230	0.928	977.1	1447.9	500.2	81.6	0.907	0.981	0.999	0.036	0.981	-0.005	0.009	0.51	-0.27

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARCOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFA

TC-532 660 3.005 0.00 21 905 0.02

DATE 2-21-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	HL	VM/VL	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	0.928	977.6	1448.6	500.9	81.4	0.915	0.988	0.999	0.022	0.988	0.006	-0.012	-0.08	0.32
2	11.166	2.750	-1.230	0.924	974.1	1447.6	498.5	81.4	0.906	0.983	0.999	0.034	0.982	0.009	-0.021	-1.23	0.53
3	11.832	2.750	-1.230	0.925	975.0	1447.5	498.9	81.5	0.912	0.987	1.000	0.025	0.987	0.007	-0.030	-1.74	0.41
4	12.498	2.750	-1.230	0.927	976.6	1447.7	499.9	81.6	0.927	1.000	0.999	0.002	1.000	0.000	-0.034	-1.92	0.00
5	13.164	2.750	-1.230	0.928	977.5	1448.0	500.6	81.4	0.945	1.015	1.000	-0.031	1.015	-0.006	-0.030	-1.71	-0.35
6	13.830	2.750	-1.230	0.926	975.5	1449.2	499.8	81.6	0.966	1.036	0.999	-0.074	1.036	-0.009	-0.024	-1.33	-0.51
7	14.496	2.750	-1.230	0.927	976.2	1448.0	499.7	81.6	0.979	1.047	1.000	-0.095	1.047	-0.010	-0.016	-0.86	-0.56
8	15.162	2.750	-1.230	0.925	974.6	1448.7	499.1	81.6	0.995	1.064	0.999	-0.129	1.064	-0.010	-0.006	-0.35	-0.54
9	15.828	2.750	-1.230	0.927	976.4	1447.4	499.7	81.6	1.012	1.076	0.999	-0.154	1.076	-0.009	0.005	0.25	-0.50
11	16.494	2.750	-1.230	0.926	975.3	1447.1	498.9	81.6	1.039	1.102	1.000	-0.205	1.102	-0.008	0.020	1.04	-0.41
12	17.160	2.750	-1.230	0.927	976.9	1448.6	500.4	81.6	1.008	1.073	0.999	-0.147	1.072	-0.001	0.035	1.89	-0.08
13	17.826	2.750	-1.230	0.927	976.6	1447.3	499.8	81.5	0.921	0.995	0.999	0.010	0.994	-0.000	0.031	1.79	-0.03
15	18.492	2.750	-1.230	0.928	977.5	1446.7	500.2	81.4	0.899	0.973	1.000	0.054	0.973	-0.002	0.018	1.08	-0.12
18	19.158	2.750	-1.230	0.928	977.7	1446.3	500.1	81.4	0.904	0.978	1.000	0.044	0.978	-0.002	0.011	0.63	-0.14
21	19.824	2.750	-1.230	0.928	977.5	1447.4	500.4	81.4	0.914	0.987	1.000	0.026	0.987	-0.003	0.008	0.44	-0.15

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REL10-6 ALPHA CONFIG SURVEY ALFAS
TC-532 561 2.994 0.00 21 906 0.02

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.750	-2.208	0.922	972.1	1447.2	497.1	81.6	0.926	1.004	1.000	-0.007	1.004	-0.002	-0.007	-0.42	-0.13
2	10.500	0.750	-2.208	0.923	973.1	1447.3	497.8	81.5	0.918	0.995	1.000	0.008	0.995	-0.004	-0.010	-0.57	-0.21
3	11.166	0.750	-2.208	0.925	974.7	1448.5	499.0	81.6	0.920	0.995	0.999	0.009	0.995	-0.005	-0.013	-0.73	-0.29
4	11.832	0.750	-2.208	0.925	975.1	1447.5	499.0	81.6	0.926	1.000	1.000	-0.001	1.000	-0.006	-0.014	-0.78	-0.33
5	12.498	0.750	-2.208	0.928	977.1	1449.0	500.7	81.6	0.938	1.010	0.999	-0.021	1.010	-0.006	-0.013	-0.75	-0.34
6	13.164	0.750	-2.208	0.929	978.4	1448.3	501.1	81.7	0.953	1.022	0.999	-0.045	1.022	-0.006	-0.012	-0.68	-0.34
7	13.830	0.750	-2.208	0.927	976.3	1448.4	500.0	81.5	0.967	1.037	0.999	-0.076	1.037	-0.006	-0.009	-0.51	-0.32
8	14.496	0.750	-2.208	0.928	977.0	1447.6	500.2	81.5	0.980	1.048	0.999	-0.097	1.048	-0.005	-0.006	-0.34	-0.28
9	15.162	0.750	-2.208	0.927	976.8	1448.3	500.2	81.6	0.994	1.060	0.999	-0.123	1.060	-0.004	-0.002	-0.13	-0.21
10	15.828	0.750	-2.208	0.926	976.0	1447.1	499.4	81.5	1.006	1.072	1.000	-0.145	1.072	-0.002	0.004	0.24	-0.10
11	16.494	0.750	-2.208	0.927	976.7	1448.3	500.2	81.6	1.022	1.085	0.999	-0.173	1.085	0.001	0.009	0.50	0.03
12	17.160	0.750	-2.208	0.928	977.9	1448.9	501.0	81.6	0.983	1.050	0.999	-0.100	1.050	0.004	0.014	0.75	0.21
14	18.826	0.750	-2.208	0.925	975.2	1448.0	499.1	81.7	0.937	1.011	1.000	-0.022	1.011	0.003	0.014	0.79	0.18
15	19.492	0.750	-2.208	0.924	978.2	1448.5	501.1	81.7	0.923	0.995	1.000	0.010	0.995	0.002	0.010	0.59	0.12
18	19.158	0.750	-2.208	0.927	976.9	1448.4	500.3	81.6	0.918	0.992	1.000	0.016	0.992	0.001	0.006	0.37	0.05
19	19.824	0.750	-2.208	0.929	978.1	1447.2	500.5	81.7	0.919	0.992	0.999	0.016	0.992	0.000	0.005	0.27	0.00

DATE 9-MAR-78 PROJECT NO P41C-NOC

V ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 664 2.993 0.00 21 909 0.02

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-3.708	0.922	972.0	1447.5	497.0	81.7	0.928	1.006	1.000	-0.013	1.006	-0.001	-0.007	-0.42	-0.07
2	10.167	0.000	-3.708	0.923	973.1	1449.0	498.2	81.7	0.926	1.003	0.999	-0.008	1.003	-0.001	-0.008	-0.47	-0.05
3	10.500	0.000	-3.708	0.923	973.3	1448.9	498.3	81.7	0.925	1.002	0.999	-0.006	1.002	-0.001	-0.009	-0.53	-0.08
4	10.833	0.000	-3.708	0.923	973.4	1448.3	498.2	81.7	0.924	1.001	0.999	-0.003	1.001	-0.001	-0.010	-0.58	-0.08
5	11.166	0.000	-3.708	0.924	973.5	1448.2	498.2	81.6	0.926	1.002	1.000	-0.005	1.002	-0.001	-0.011	-0.62	-0.08
6	11.499	0.000	-3.708	0.925	974.4	1448.0	498.7	81.6	0.929	1.002	0.999	-0.005	1.002	-0.001	-0.011	-0.64	-0.07
7	11.832	0.000	-3.708	0.924	974.3	1447.5	498.4	81.7	0.929	1.004	1.000	-0.008	1.004	-0.002	-0.012	-0.68	-0.10
8	12.165	0.000	-3.708	0.926	975.5	1448.5	499.5	81.7	0.932	1.006	0.999	-0.013	1.006	-0.001	-0.012	-0.71	-0.07
9	12.498	0.000	-3.708	0.926	976.0	1448.3	499.7	81.6	0.936	1.009	0.999	-0.020	1.009	-0.001	-0.012	-0.67	-0.08
10	12.831	0.000	-3.708	0.927	976.3	1447.8	499.8	81.4	0.940	1.013	1.000	-0.026	1.012	-0.001	-0.012	-0.68	-0.07
11	13.164	0.000	-3.708	0.928	977.3	1447.3	500.2	81.5	0.945	1.016	0.999	-0.033	1.016	-0.001	-0.011	-0.63	-0.07
12	13.497	0.000	-3.708	0.929	978.5	1447.5	501.0	81.5	0.952	1.021	1.000	-0.042	1.021	-0.001	-0.011	-0.60	-0.06
14	13.830	0.000	-3.708	0.927	976.3	1448.1	499.8	81.7	0.956	1.027	1.000	-0.055	1.027	-0.002	-0.010	-0.55	-0.09
15	14.163	0.000	-3.708	0.924	973.7	1447.8	498.2	81.7	0.958	1.032	0.999	-0.065	1.032	-0.001	-0.008	-0.45	-0.06
16	14.496	0.000	-3.708	0.925	974.4	1448.9	499.0	81.7	0.962	1.034	0.999	-0.071	1.034	-0.001	-0.006	-0.35	-0.07
17	14.829	0.000	-3.708	0.926	975.5	1448.0	499.3	81.7	0.968	1.039	0.999	-0.079	1.039	-0.001	-0.005	-0.30	-0.06
18	15.162	0.000	-3.708	0.924	973.7	1448.1	498.3	81.7	0.973	1.045	1.000	-0.082	1.045	-0.001	-0.004	-0.21	-0.03
19	15.495	0.000	-3.708	0.925	974.6	1449.2	499.2	81.7	0.977	1.048	0.999	-0.098	1.048	-0.000	-0.002	-0.09	-0.02
20	15.828	0.000	-3.708	0.926	976.0	1447.8	499.5	81.7	0.983	1.052	1.000	-0.104	1.052	-0.000	0.002	0.11	-0.02
21	16.161	0.000	-3.708	0.924	973.8	1447.1	498.0	81.7	0.980	1.051	1.000	-0.103	1.051	-0.001	0.004	0.24	-0.06
22	16.494	0.000	-3.708	0.926	975.9	1448.9	499.8	81.7	0.982	1.051	0.999	-0.104	1.051	-0.001	0.006	0.33	-0.04
23	16.827	0.000	-3.708	0.928	977.4	1448.3	500.5	81.7	0.977	1.045	0.999	-0.092	1.045	-0.000	0.009	0.49	-0.02
24	17.160	0.000	-3.708	0.930	979.0	1448.4	501.4	81.7	0.967	1.034	1.000	-0.070	1.034	-0.000	0.010	0.58	-0.03
26	17.493	0.000	-3.708	0.929	978.0	1449.7	501.4	81.7	0.954	1.023	0.999	-0.049	1.023	-0.000	0.011	0.61	-0.01
27	17.826	0.000	-3.708	0.928	977.6	1447.5	500.4	81.5	0.942	1.012	0.999	-0.026	1.012	-0.000	0.010	0.58	-0.02
29	18.159	0.000	-3.708	0.928	977.3	1447.6	500.2	81.7	0.934	1.006	0.999	-0.013	1.006	-0.000	0.010	0.54	-0.01
30	18.492	0.000	-3.708	0.927	977.0	1448.2	500.3	81.6	0.928	1.001	1.000	-0.002	1.001	-0.000	0.008	0.47	-0.01
31	18.825	0.000	-3.708	0.928	977.1	1448.2	500.4	81.5	0.926	0.998	0.999	0.002	0.998	-0.000	0.007	0.39	-0.01
32	19.158	0.000	-3.708	0.927	976.4	1448.0	499.8	81.7	0.922	0.996	1.000	0.007	0.996	-0.000	0.005	0.31	-0.01
33	19.491	0.000	-3.708	0.927	976.3	1449.2	500.2	81.7	0.922	0.996	0.999	0.006	0.996	-0.000	0.005	0.27	-0.01

DATE 9-MAR-78 PROJECT NO P41C-N0C

AEC, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 662 2.995 0.00 21

DATE 2-21-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	HL	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-2.958	0.923	973.2	1447.4	497.8	81.6	0.928	1.004	0.999	-0.010	1.004	-0.001	-0.007	-0.37	-0.06
2	10.167	0.000	-2.958	0.923	973.4	1447.2	497.8	81.7	0.924	1.001	1.000	-0.003	1.001	-0.001	-0.008	-0.43	-0.06
3	10.500	0.000	-2.958	0.924	973.8	1447.9	498.2	81.7	0.923	1.000	1.000	0.000	1.000	-0.001	-0.009	-0.49	-0.09
4	10.833	0.000	-2.958	0.925	974.8	1448.4	499.1	81.7	0.923	0.998	0.999	0.002	0.998	-0.002	-0.010	-0.55	-0.09
5	11.166	0.000	-2.958	0.925	975.1	1448.4	499.2	81.7	0.923	0.998	0.999	0.002	0.998	-0.001	-0.011	-0.54	-0.08
6	11.499	0.000	-2.958	0.925	975.2	1447.7	499.0	81.7	0.925	1.000	1.000	0.000	1.000	-0.002	-0.012	-0.57	-0.09
7	11.832	0.000	-2.958	0.923	973.4	1447.3	497.8	81.7	0.927	1.003	1.000	-0.007	1.003	-0.002	-0.012	-0.68	-0.10
8	12.165	0.000	-2.958	0.924	974.1	1448.1	498.5	81.7	0.930	1.006	1.000	-0.012	1.006	-0.001	-0.012	-0.68	-0.08
9	12.498	0.000	-2.958	0.926	975.4	1449.0	499.6	81.7	0.935	1.009	0.998	-0.020	1.009	-0.002	-0.011	-0.65	-0.09
10	12.831	0.000	-2.958	0.926	975.5	1449.3	499.8	81.7	0.942	1.015	0.999	-0.030	1.014	-0.001	-0.011	-0.64	-0.06
11	13.164	0.000	-2.958	0.927	976.8	1448.3	500.2	81.6	0.947	1.018	0.999	-0.038	1.018	-0.001	-0.011	-0.61	-0.07
12	13.497	0.000	-2.958	0.924	974.0	1448.5	498.7	81.5	0.950	1.024	0.999	-0.048	1.024	-0.001	-0.010	-0.56	-0.05
13	13.830	0.000	-2.958	0.925	975.0	1447.2	498.8	81.5	0.958	1.030	0.999	-0.060	1.030	-0.001	-0.009	-0.48	-0.06
14	14.163	0.000	-2.958	0.927	976.0	1447.7	499.7	81.4	0.965	1.035	1.000	-0.071	1.035	-0.001	-0.007	-0.41	-0.06
15	14.496	0.000	-2.958	0.928	977.5	1447.6	500.5	81.4	0.970	1.038	0.999	-0.078	1.038	-0.001	-0.006	-0.32	-0.04
16	14.829	0.000	-2.958	0.927	976.4	1448.5	500.1	81.5	0.978	1.047	0.999	-0.094	1.047	-0.001	-0.005	-0.25	-0.03
17	15.162	0.000	-2.958	0.923	973.3	1448.6	498.3	81.5	0.976	1.049	1.000	-0.098	1.049	-0.001	-0.002	-0.13	-0.03
18	15.495	0.000	-2.958	0.925	974.7	1448.7	499.1	81.7	0.983	1.053	0.999	-0.108	1.053	-0.000	-0.001	0.04	-0.01
19	15.828	0.000	-2.958	0.923	972.8	1447.6	497.6	81.7	0.988	1.059	1.000	-0.120	1.059	-0.001	0.002	0.12	-0.04
20	16.161	0.000	-2.958	0.924	973.9	1448.3	498.5	81.6	0.991	1.061	0.999	-0.123	1.061	-0.001	0.005	0.28	-0.03
21	16.494	0.000	-2.958	0.926	975.6	1448.9	499.8	81.5	0.997	1.064	1.000	-0.130	1.064	-0.001	0.008	0.42	-0.04
22	16.827	0.000	-2.958	0.925	974.6	1448.6	499.1	81.4	0.983	1.053	1.000	-0.107	1.053	-0.001	0.010	0.56	-0.03
23	17.160	0.000	-2.958	0.927	976.2	1447.8	499.8	81.4	0.967	1.037	0.999	-0.075	1.037	0.000	0.011	0.60	0.00
24	17.493	0.000	-2.958	0.928	977.4	1447.9	500.5	81.4	0.953	1.023	0.999	-0.047	1.023	0.000	0.012	0.69	0.02
26	17.826	0.000	-2.958	0.928	977.0	1448.2	500.4	81.4	0.942	1.013	0.999	-0.027	1.013	0.000	0.011	0.64	0.02
27	18.159	0.000	-2.958	0.928	977.2	1449.0	500.8	81.5	0.932	1.004	0.999	-0.010	1.004	0.000	0.010	0.59	0.01
28	18.492	0.000	-2.958	0.928	977.0	1446.6	499.8	81.5	0.925	0.998	1.000	0.004	0.998	0.000	0.009	0.52	0.01
29	18.825	0.000	-2.958	0.928	977.2	1448.3	500.5	81.6	0.922	0.995	0.999	0.009	0.995	0.000	0.007	0.42	0.02
30	19.158	0.000	-2.958	0.928	977.5	1448.1	500.6	81.5	0.922	0.994	0.999	0.011	0.994	0.000	0.006	0.35	0.00
31	19.491	0.000	-2.958	0.928	977.0	1447.3	500.1	81.4	0.920	0.993	0.999	0.014	0.993	0.000	0.005	0.32	0.03

DATE 9-MAR-78 PROJECT NO P4IC-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

CONFIC 21

TC-532 663 2.999 0.00

SURVEY ALFAS 908 0.02

DATE 2-21-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VA ^{1/2} /PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SML
1	9.834	0.000	-2.208	0.926	975.3	1447.2	499.0	81.5	0.930	1.004	1.000	-0.007	1.004	-0.002	-0.006	-0.36
2	10.167	0.000	-2.208	0.924	973.7	1447.2	498.0	81.6	0.924	1.000	0.999	-0.001	1.000	-0.001	-0.007	-0.39
3	10.500	0.000	-2.208	0.924	973.8	1448.2	498.4	81.6	0.922	0.998	1.000	0.003	0.998	-0.002	-0.008	-0.45
4	10.833	0.000	-2.208	0.924	974.1	1447.9	498.6	81.4	0.921	0.997	1.000	0.006	0.997	-0.002	-0.009	-0.53
5	11.166	0.000	-2.208	0.925	974.8	1447.2	498.7	81.4	0.920	0.996	0.999	0.008	0.996	-0.002	-0.010	-0.58
6	11.499	0.000	-2.208	0.926	975.2	1447.7	499.1	81.5	0.924	0.998	1.000	0.003	0.998	-0.002	-0.010	-0.60
7	11.832	0.000	-2.208	0.923	973.1	1447.6	497.7	81.7	0.925	1.002	0.999	-0.005	1.002	-0.002	-0.011	-0.62
8	12.165	0.000	-2.208	0.923	972.7	1447.3	497.5	81.6	0.929	1.006	1.000	-0.012	1.006	-0.002	-0.011	-0.61
9	12.498	0.000	-2.208	0.924	973.6	1447.4	498.0	81.7	0.935	1.010	0.999	-0.022	1.010	-0.002	-0.010	-0.59
10	12.831	0.000	-2.208	0.925	974.6	1447.9	498.8	81.7	0.943	1.017	0.999	-0.035	1.017	-0.002	-0.009	-0.53
11	13.164	0.000	-2.208	0.924	974.3	1448.3	498.1	81.6	0.950	1.023	1.001	-0.045	1.023	-0.002	-0.009	-0.50
12	13.497	0.000	-2.208	0.923	972.8	1448.2	497.8	81.7	0.955	1.030	0.999	-0.061	1.030	-0.002	-0.008	-0.45
13	13.830	0.000	-2.208	0.923	973.2	1447.3	497.8	81.6	0.962	1.036	1.000	-0.071	1.036	-0.002	-0.006	-0.35
14	14.163	0.000	-2.208	0.925	974.8	1447.2	498.6	81.7	0.970	1.041	0.999	-0.083	1.041	-0.001	-0.005	-0.28
15	14.496	0.000	-2.208	0.927	976.5	1448.2	500.3	81.7	0.982	1.051	0.999	-0.103	1.051	-0.001	-0.003	-0.19
16	14.829	0.000	-2.208	0.924	974.2	1449.1	498.9	81.6	0.985	1.055	0.999	-0.113	1.055	-0.001	-0.002	-0.11
17	15.162	0.000	-2.208	0.925	975.3	1448.3	499.3	81.7	0.995	1.063	1.000	-0.127	1.063	-0.001	-0.000	-0.01
18	15.495	0.000	-2.208	0.925	974.8	1448.4	499.0	81.7	1.003	1.071	0.999	-0.144	1.071	0.000	0.002	0.12
19	15.828	0.000	-2.208	0.924	973.5	1447.4	498.0	81.6	1.007	1.076	1.000	-0.152	1.076	-0.001	0.004	0.19
20	16.161	0.000	-2.208	0.926	975.4	1447.6	499.1	81.6	1.017	1.082	1.000	-0.166	1.082	-0.000	0.006	0.31
21	16.494	0.000	-2.208	0.928	977.5	1448.2	500.5	81.7	1.024	1.087	0.999	-0.175	1.087	-0.001	0.009	0.46
24	16.827	0.000	-2.208	0.925	974.7	1447.1	498.6	81.5	0.999	1.067	0.999	-0.136	1.067	-0.000	0.010	0.56
25	17.160	0.000	-2.208	0.924	973.6	1448.7	498.6	81.4	0.967	1.040	0.999	-0.082	1.040	0.000	0.011	0.60
26	17.493	0.000	-2.208	0.926	975.2	1448.5	499.4	81.5	0.952	1.024	0.999	-0.049	1.024	0.001	0.012	0.67
27	17.826	0.000	-2.208	0.928	977.2	1448.4	500.5	81.6	0.940	1.011	0.999	-0.023	1.011	0.001	0.011	0.65
28	18.159	0.000	-2.208	0.928	977.0	1448.4	500.4	81.5	0.929	1.002	0.999	-0.005	1.002	0.001	0.010	0.57
29	18.492	0.000	-2.208	0.928	977.2	1448.4	500.5	81.6	0.923	0.995	0.999	0.008	0.995	0.001	0.008	0.49
30	18.825	0.000	-2.208	0.929	978.7	1449.4	501.7	81.6	0.921	0.993	0.999	0.013	0.993	0.001	0.007	0.40
32	19.158	0.000	-2.208	0.928	977.5	1448.2	500.5	81.7	0.920	0.993	0.999	0.014	0.993	0.001	0.006	0.33
33	19.491	0.000	-2.208	0.927	976.6	1447.7	499.9	81.6	0.918	0.992	0.999	0.015	0.992	0.001	0.005	0.27

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARAGOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

IC-532 665 2,998 0.00

CONFIG 21 SURVEY ALFA 910 0.02

DATE 2-21-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	0.924	974.0	1448.4	498.6	81.7	0.928	1.004	1.000	-0.007	1.004	-0.001	-0.007	-0.38	-0.05
2	11.167	-0.750	-2.208	0.927	976.4	1448.3	500.0	81.7	0.921	0.995	0.999	0.009	0.995	0.001	-0.012	-0.67	0.05
3	12.500	-0.750	-2.208	0.930	979.2	1449.1	501.8	81.7	0.940	1.010	0.999	-0.021	1.009	0.002	-0.013	-0.71	0.14
4	13.833	-0.750	-2.208	0.922	972.6	1447.8	497.5	81.7	0.964	1.038	1.000	-0.077	1.038	0.003	-0.009	-0.47	0.15
5	15.166	-0.750	-2.208	0.927	976.3	1450.2	500.5	81.7	0.990	1.058	0.999	-0.118	1.058	0.002	-0.002	-0.13	0.11
6	16.499	-0.750	-2.208	0.926	975.6	1449.6	499.9	81.7	1.019	1.084	0.999	-0.170	1.084	-0.002	0.010	0.51	-0.12
7	17.832	-0.750	-2.208	0.929	978.2	1449.5	501.4	81.7	0.939	1.010	0.999	-0.021	1.010	-0.003	0.012	0.71	-0.18
9	19.165	-0.750	-2.208	0.927	976.8	1449.0	500.4	81.8	0.918	0.992	1.000	0.016	0.992	0.000	0.006	0.32	0.02
11	20.498	-0.750	-2.208	0.927	976.7	1449.5	500.5	81.8	0.925	0.998	1.000	0.004	0.998	0.001	0.003	0.17	0.04

DATE 9-MAR-78 PROJECT NO P41C-NOC

APO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

APOLLO AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALFA CONFIG SURVEY ALFAS

TC-332 666 2.993 0.00 21 911 0.02

DATE 2-21-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SML
1	10.500	-2.750	-1.230	0.922	972.0	1447.3	497.0	81.7	0.910	0.989	1.000	0.021	0.989	-0.007	-0.011	-0.66	-0.42
2	11.833	-2.750	-1.230	0.924	974.2	1447.5	498.4	81.7	0.910	0.986	1.000	0.026	0.986	-0.008	-0.030	-1.75	-0.48
3	13.166	-2.750	-1.230	0.928	977.7	1449.1	500.9	81.8	0.943	1.014	0.999	-0.029	1.013	0.003	-0.031	-1.74	0.18
4	14.499	-2.750	-1.230	0.922	972.3	1449.1	497.8	81.7	0.973	1.047	0.999	-0.096	1.047	0.008	-0.016	-0.90	0.46
5	15.832	-2.750	-1.230	0.927	976.6	1448.7	500.2	81.7	1.022	1.085	0.999	-0.173	1.085	0.008	0.002	0.11	0.44
6	17.165	-2.750	-1.230	0.926	976.3	1449.4	500.2	81.8	0.992	1.060	0.999	-0.120	1.059	-0.002	0.034	1.82	-0.11
7	18.498	-2.750	-1.230	0.927	977.0	1450.2	500.9	81.8	0.898	0.973	0.999	0.053	0.973	0.002	0.012	0.69	0.14
10	19.831	-2.750	-1.230	0.928	977.5	1450.2	501.1	81.9	0.915	0.989	0.999	0.022	0.989	0.004	0.003	0.16	0.24

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

IC-832 673 3.004 2.00

DATE 2-22-78

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
8	10.500	4.250	-1.230	0.929	979.2	1439.6	501.8	82.0	0.920	0.991	0.999	0.017	0.991	0.009	0.033	1.93	0.54
9	11.166	4.250	-1.230	0.928	978.1	1450.3	501.5	82.0	0.913	0.986	0.999	0.027	0.985	0.014	0.031	1.82	0.83
10	11.832	4.250	-1.230	0.925	975.5	1439.7	499.7	82.1	0.903	0.980	0.999	0.039	0.979	0.022	0.028	1.63	1.26
11	12.498	4.250	-1.230	0.926	976.1	1439.6	500.1	82.0	0.898	0.974	1.000	0.053	0.973	0.030	0.020	1.17	1.76
12	13.164	4.250	-1.230	0.928	977.8	1450.5	501.4	82.0	0.898	0.972	0.999	0.055	0.972	0.033	0.006	0.34	1.94
13	13.830	4.250	-1.230	0.927	977.2	1434.6	500.7	82.0	0.909	0.983	0.999	0.033	0.982	0.025	-0.005	-0.31	1.48
14	14.496	4.250	-1.230	0.925	975.4	1439.7	499.7	82.0	0.925	0.999	0.999	0.000	0.999	0.017	-0.006	-0.37	0.95
15	15.162	4.250	-1.230	0.929	978.3	1450.5	501.6	82.0	0.949	1.019	0.999	-0.039	1.019	0.009	-0.002	-0.13	0.52
16	15.828	4.250	-1.230	0.927	976.9	1439.4	500.4	82.0	0.969	1.038	0.999	-0.077	1.038	0.004	0.007	0.38	0.25
17	16.494	4.250	-1.230	0.927	977.0	1450.3	500.8	82.0	1.002	1.068	1.000	-0.136	1.068	0.001	0.018	0.99	0.08
18	17.160	4.250	-1.230	0.928	978.2	1450.9	501.7	82.0	1.032	1.099	0.999	-0.188	1.092	0.004	0.039	2.04	0.19
19	17.826	4.250	-1.230	0.929	978.8	1450.1	501.8	82.0	0.929	1.000	0.999	-0.002	0.999	0.009	0.040	2.29	0.52
20	18.492	4.250	-1.230	0.927	977.3	1450.2	500.9	82.0	0.899	0.974	0.999	0.051	0.974	0.010	0.028	1.64	0.58
21	19.158	4.250	-1.230	0.928	978.0	1451.7	501.8	82.1	0.905	0.979	0.999	0.040	0.979	0.011	0.021	1.20	0.64
22	19.824	4.250	-1.230	0.928	977.6	1439.4	500.8	82.0	0.913	0.986	0.999	0.026	0.986	0.011	0.019	1.08	0.67

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.
AEC DIVISION
A SVERDRUP CORPORATION COMPANY
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 676 2.998 2.00 21 904 2.01

DATE 2-22-78
AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	0.925	975.2	1499.5	499.4	82.1	0.917	0.993	1.000	0.014	0.993	0.009	0.028	1.62	0.51
2	10.833	3.500	-2.730	0.925	975.6	1450.2	499.9	82.0	0.915	0.990	0.999	0.019	0.990	0.010	0.026	1.51	0.55
3	11.166	3.500	-2.730	0.926	975.6	1448.0	499.2	82.0	0.911	0.987	1.000	0.026	0.987	0.011	0.024	1.40	0.62
4	11.499	3.500	-2.730	0.926	975.9	1450.2	500.1	82.0	0.910	0.985	0.999	0.028	0.985	0.012	0.022	1.28	0.69
5	11.832	3.500	-2.730	0.923	973.3	1450.2	498.6	82.0	0.908	0.986	0.999	0.026	0.985	0.013	0.019	1.12	0.77
6	12.165	3.500	-2.730	0.923	973.6	1449.8	498.6	82.0	0.906	0.984	0.999	0.030	0.984	0.014	0.017	0.98	0.81
7	12.498	3.500	-2.730	0.924	974.1	1450.0	499.0	82.0	0.908	0.985	0.999	0.027	0.986	0.014	0.015	0.85	0.83
8	12.831	3.500	-2.730	0.925	974.8	1449.7	499.3	82.0	0.911	0.987	0.999	0.024	0.987	0.014	0.012	0.71	0.82
9	13.164	3.500	-2.730	0.924	974.7	1448.9	499.0	82.0	0.914	0.990	1.000	0.020	0.990	0.014	0.010	0.60	0.80
10	13.497	3.500	-2.730	0.927	976.7	1450.0	500.5	82.0	0.919	0.993	0.999	0.012	0.993	0.013	0.009	0.50	0.74
11	13.830	3.500	-2.730	0.925	975.3	1450.0	499.7	82.0	0.923	0.998	0.999	0.002	0.998	0.012	0.008	0.47	0.70
12	14.163	3.500	-2.730	0.925	975.0	1449.3	499.2	82.2	0.928	1.003	1.000	-0.006	1.003	0.011	0.008	0.47	0.61
13	14.496	3.500	-2.730	0.924	976.8	1450.9	500.8	82.1	0.936	1.009	0.999	-0.018	1.009	0.010	0.009	0.51	0.55
14	14.829	3.500	-2.730	0.924	974.7	1449.7	499.2	82.1	0.946	1.015	0.999	-0.030	1.015	0.008	0.010	0.55	0.48
15	15.162	3.500	-2.730	0.925	975.6	1450.6	500.0	82.1	0.946	1.019	0.999	-0.040	1.019	0.007	0.011	0.64	0.41
16	15.495	3.500	-2.730	0.928	978.0	1450.9	501.6	82.0	0.956	1.025	0.999	-0.053	1.025	0.007	0.013	0.75	0.37
17	15.828	3.500	-2.730	0.926	975.6	1449.9	499.9	82.0	0.961	1.033	0.999	-0.067	1.033	0.005	0.015	0.84	0.30
18	16.161	3.500	-2.730	0.926	976.2	1450.2	500.2	82.1	0.967	1.038	1.000	-0.076	1.038	0.005	0.019	1.03	0.26
19	16.494	3.500	-2.730	0.926	975.6	1449.2	499.5	82.0	0.974	1.044	0.999	-0.089	1.044	0.004	0.024	1.30	0.25
20	16.827	3.500	-2.730	0.928	977.9	1451.4	501.7	82.1	0.989	1.055	1.000	-0.112	1.055	0.005	0.028	1.54	0.26
21	17.160	3.500	-2.730	0.927	976.9	1449.6	500.5	82.1	0.975	1.044	0.999	-0.088	1.043	0.006	0.033	1.80	0.35
22	17.493	3.500	-2.730	0.926	975.9	1449.4	499.9	82.0	0.954	1.025	1.000	-0.052	1.025	0.007	0.034	1.90	0.39
23	17.826	3.500	-2.730	0.928	978.0	1450.0	501.3	82.0	0.940	1.011	0.999	-0.023	1.010	0.008	0.034	1.90	0.45
24	18.159	3.500	-2.730	0.929	978.3	1449.3	501.2	82.0	0.929	1.000	1.000	-0.001	1.000	0.008	0.031	1.77	0.43
25	18.492	3.500	-2.730	0.928	977.9	1451.4	501.7	82.0	0.921	0.994	0.999	0.011	0.993	0.008	0.028	1.64	0.47
26	18.825	3.500	-2.730	0.926	976.3	1449.1	499.9	82.1	0.917	0.991	1.000	0.017	0.991	0.008	0.026	1.50	0.45
27	19.158	3.500	-2.730	0.926	976.2	1449.9	500.2	82.0	0.916	0.990	0.999	0.018	0.990	0.008	0.024	1.41	0.46
28	19.491	3.500	-2.730	0.928	977.5	1448.9	500.6	82.0	0.918	0.991	1.000	0.018	0.990	0.008	0.023	1.32	0.47

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARG, INC.

AEC DIVISION

A STEPHENSON CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 674 3.000 2.000 902 1.99

DATE 2-22-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.980	0.924	974.1	1450.5	499.2	82.0	0.915	0.992	0.999	0.015	0.991	0.010	0.030	1.74	0.57
2	10.833	3.500	-1.980	0.924	974.5	1449.3	499.0	82.0	0.909	0.986	0.999	0.021	0.986	0.012	0.027	1.58	0.70
3	11.166	3.500	-1.980	0.925	975.2	1450.4	499.7	82.1	0.906	0.982	0.999	0.034	0.982	0.014	0.025	1.44	0.82
4	11.499	3.500	-1.980	0.925	975.7	1449.5	499.7	82.1	0.904	0.980	0.999	0.039	0.980	0.016	0.022	1.27	0.96
5	11.832	3.500	-1.980	0.926	975.8	1449.8	499.8	82.1	0.902	0.979	1.000	0.043	0.978	0.019	0.018	1.08	1.09
6	12.165	3.500	-1.980	0.927	977.2	1450.6	501.0	82.0	0.903	0.978	0.999	0.043	0.977	0.020	0.015	0.87	1.17
7	12.498	3.500	-1.980	0.927	977.1	1449.1	500.5	82.0	0.903	0.978	1.000	0.044	0.977	0.021	0.011	0.64	1.22
8	12.831	3.500	-1.980	0.927	977.0	1450.2	500.8	82.0	0.906	0.980	0.999	0.039	0.980	0.020	0.007	0.41	1.16
9	13.164	3.500	-1.980	0.924	974.2	1449.7	499.0	82.0	0.908	0.985	1.000	0.029	0.985	0.018	0.004	0.24	1.05
10	13.497	3.500	-1.980	0.924	974.6	1449.2	499.0	82.0	0.913	0.989	1.000	0.021	0.989	0.017	0.003	0.15	0.97
11	13.830	3.500	-1.980	0.926	976.0	1450.4	500.2	82.1	0.921	0.996	1.000	0.008	0.995	0.015	0.002	0.10	0.85
12	14.163	3.500	-1.980	0.928	978.4	1451.5	501.9	82.2	0.930	1.001	0.998	-0.005	1.001	0.012	0.001	0.06	0.71
13	14.496	3.500	-1.980	0.929	978.9	1449.9	501.7	82.1	0.938	1.009	0.999	-0.018	1.009	0.011	0.002	0.13	0.62
14	14.829	3.500	-1.980	0.925	975.7	1449.5	499.7	82.1	0.944	1.017	1.000	-0.034	1.017	0.009	0.004	0.23	0.49
15	15.162	3.500	-1.980	0.927	977.0	1449.7	500.5	82.1	0.953	1.024	1.000	-0.048	1.024	0.007	0.007	0.38	0.42
16	15.495	3.500	-1.980	0.925	975.0	1450.5	499.6	82.1	0.959	1.032	0.999	-0.065	1.032	0.006	0.010	0.55	0.33
17	15.828	3.500	-1.980	0.926	975.7	1449.4	499.7	82.0	0.964	1.035	0.999	-0.072	1.035	0.005	0.013	0.71	0.26
18	16.161	3.500	-1.980	0.928	977.5	1450.8	501.3	82.0	0.981	1.049	0.999	-0.098	1.048	0.004	0.017	0.92	0.21
19	16.494	3.500	-1.980	0.926	976.0	1450.1	500.1	82.1	0.988	1.057	0.999	-0.115	1.056	0.003	0.023	1.25	0.17
20	16.827	3.500	-1.980	0.927	977.1	1449.4	500.6	82.0	1.003	1.068	1.000	-0.137	1.068	0.004	0.031	1.64	0.22
21	17.160	3.500	-1.980	0.930	979.3	1450.5	502.2	82.0	0.999	1.063	0.999	-0.127	1.062	0.007	0.036	1.96	0.35
22	17.493	3.500	-1.980	0.928	978.0	1449.4	501.1	82.0	0.963	1.032	0.999	-0.064	1.031	0.006	0.038	2.10	0.45
23	17.826	3.500	-1.980	0.925	975.1	1450.2	499.7	82.0	0.934	1.008	1.000	-0.016	1.008	0.009	0.036	2.04	0.49
24	18.159	3.500	-1.980	0.926	976.4	1449.6	500.3	82.0	0.918	0.993	0.999	-0.013	0.992	0.009	0.033	1.88	0.52
25	18.492	3.500	-1.980	0.926	976.2	1449.7	500.1	82.0	0.911	0.986	1.000	0.027	0.986	0.009	0.028	1.63	0.55
26	18.825	3.500	-1.980	0.926	976.3	1450.5	500.4	82.1	0.909	0.984	0.999	0.030	0.984	0.009	0.025	1.46	0.53
27	19.158	3.500	-1.980	0.928	977.9	1450.7	501.4	82.1	0.911	0.984	1.000	0.031	0.984	0.009	0.022	1.29	0.54
28	19.491	3.500	-1.980	0.926	976.4	1450.9	500.7	82.0	0.913	0.987	0.999	0.024	0.987	0.009	0.020	1.18	0.53

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALFA

CONFIG 21

SURVEY ALFAS 903

TC-532 675 2.995 2.00

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	FAL	SXL
3	10.500	3.500	-1.230	0.923	973.6	1448.9	498.3	82.1	0.910	0.987	1.000	0.024	0.987	0.011	0.033	1.93	0.86
4	10.833	3.500	-1.230	0.924	974.7	1450.0	499.4	82.0	0.905	0.982	0.999	0.034	0.981	0.014	0.031	1.79	0.82
5	11.166	3.500	-1.230	0.925	975.5	1449.8	499.7	82.1	0.901	0.977	0.999	0.044	0.977	0.018	0.028	1.67	1.07
6	11.499	3.500	-1.230	0.925	975.0	1448.7	499.1	82.0	0.896	0.973	1.000	0.054	0.972	0.023	0.025	1.45	1.33
7	11.832	3.500	-1.230	0.926	976.1	1449.6	500.0	82.1	0.893	0.969	1.000	0.061	0.969	0.027	0.019	1.11	1.59
8	12.165	3.500	-1.230	0.927	977.1	1451.0	501.1	82.1	0.891	0.966	0.999	0.065	0.966	0.029	0.012	0.70	1.72
9	12.498	3.500	-1.230	0.927	976.6	1450.1	500.5	82.0	0.889	0.965	0.999	0.068	0.965	0.030	0.003	0.18	1.76
10	12.831	3.500	-1.230	0.927	977.2	1449.5	500.6	82.1	0.894	0.969	1.000	0.062	0.968	0.028	-0.003	-0.21	1.67
11	13.164	3.500	-1.230	0.924	974.6	1449.2	499.0	82.0	0.899	0.976	1.000	0.047	0.976	0.024	-0.008	0.47	1.41
12	13.497	3.500	-1.230	0.926	976.1	1451.0	500.5	82.0	0.908	0.983	0.999	0.032	0.983	0.020	-0.010	-0.60	1.16
13	13.830	3.500	-1.230	0.927	976.6	1449.8	500.4	82.0	0.917	0.991	0.999	0.016	0.991	0.016	-0.010	-0.59	0.92
14	14.163	3.500	-1.230	0.925	975.4	1449.7	499.7	81.9	0.927	1.001	0.999	-0.003	1.001	0.013	-0.009	-0.50	0.72
15	14.496	3.500	-1.230	0.926	975.6	1450.9	500.2	82.0	0.936	1.010	0.999	-0.022	1.010	0.010	-0.007	-0.38	0.55
16	14.829	3.500	-1.230	0.927	976.9	1450.3	500.8	82.0	0.945	1.016	0.998	-0.035	1.016	0.007	-0.004	-0.22	0.40
17	15.162	3.500	-1.230	0.925	975.6	1449.5	499.7	82.0	0.956	1.028	1.000	-0.056	1.028	0.005	0.000	0.01	0.29
18	15.495	3.500	-1.230	0.928	977.8	1450.6	501.4	82.0	0.965	1.034	0.999	-0.070	1.034	0.004	0.005	0.26	0.24
19	15.828	3.500	-1.230	0.925	974.8	1449.7	499.3	82.0	0.972	1.043	0.999	-0.087	1.043	0.003	0.009	0.48	0.16
20	16.161	3.500	-1.230	0.926	976.4	1450.1	500.4	82.0	0.987	1.055	0.999	-0.111	1.055	0.002	0.014	0.76	0.10
21	16.494	3.500	-1.230	0.928	977.8	1449.7	501.1	81.9	1.012	1.075	0.999	-0.152	1.075	0.001	0.022	1.17	0.05
22	16.827	3.500	-1.230	0.927	977.0	1449.9	500.7	82.0	1.034	1.096	1.000	-0.193	1.096	0.002	0.034	1.76	0.10
23	17.160	3.500	-1.230	0.925	975.2	1450.3	499.7	82.0	1.015	1.082	0.999	-0.165	1.081	0.006	0.042	2.22	0.30
24	17.493	3.500	-1.230	0.927	977.1	1450.9	501.1	82.0	0.965	1.034	0.999	-0.071	1.033	0.008	0.044	2.44	0.46
25	17.826	3.500	-1.230	0.928	978.2	1450.1	501.4	82.0	0.927	0.999	0.999	0.001	0.998	0.010	0.040	2.29	0.56
26	18.159	3.500	-1.230	0.926	976.4	1449.6	500.2	82.0	0.905	0.980	1.000	0.039	0.979	0.010	0.033	1.95	0.56
27	18.492	3.500	-1.230	0.927	976.6	1450.3	500.6	82.0	0.897	0.973	0.999	0.053	0.972	0.010	0.027	1.60	0.58
28	18.825	3.500	-1.230	0.928	977.4	1450.3	501.0	82.0	0.898	0.973	0.999	0.051	0.973	0.010	0.023	1.36	0.57
29	19.158	3.500	-1.230	0.927	976.9	1450.1	500.6	82.1	0.902	0.977	0.999	0.044	0.977	0.009	0.020	1.19	0.55
30	19.491	3.500	-1.230	0.926	976.6	1450.2	500.5	82.1	0.907	0.982	0.999	0.035	0.982	0.009	0.018	1.06	0.55

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART ARX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 677 3.003 2.00 21 905 2.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AIL	SWL
1	10.500	2.750	-1.230	0.928	978.0	1450.1	501.3	82.1	0.908	0.981	0.999	0.035	0.981	0.013	0.031	1.79	0.78
2	11.166	2.750	-1.230	0.928	977.6	1450.0	501.1	82.0	0.892	0.967	1.000	0.065	0.967	0.023	0.022	1.28	1.34
3	11.832	2.750	-1.230	0.926	975.9	1450.5	500.2	82.0	0.884	0.961	0.999	0.077	0.961	0.027	0.004	0.25	1.60
4	12.498	2.750	-1.230	0.928	977.7	1451.0	501.5	82.0	0.893	0.968	0.999	0.062	0.968	0.021	-0.009	-0.51	1.26
5	13.164	2.750	-1.230	0.926	975.7	1449.7	499.8	82.0	0.907	0.983	0.999	0.033	0.983	0.013	-0.012	-0.71	0.78
6	13.830	2.750	-1.230	0.927	977.2	1449.8	500.8	82.0	0.924	0.997	0.999	0.005	0.997	0.009	-0.009	-0.54	0.51
7	14.496	2.750	-1.230	0.926	975.9	1451.0	500.4	82.1	0.940	1.013	0.999	-0.028	1.013	0.006	-0.005	-0.29	0.31
8	15.162	2.750	-1.230	0.928	977.8	1449.5	501.0	82.0	0.961	1.030	0.999	-0.062	1.030	0.004	0.002	0.13	0.20
10	15.828	2.750	-1.230	0.922	972.9	1450.1	498.3	82.0	0.972	1.046	0.999	-0.093	1.045	0.002	0.011	0.63	0.13
11	16.494	2.750	-1.230	0.925	974.9	1449.6	499.3	82.1	1.008	1.076	0.999	-0.153	1.075	0.002	0.026	1.39	0.11
12	17.160	2.750	-1.230	0.927	977.2	1450.6	501.0	82.1	1.009	1.074	0.999	-0.149	1.073	0.009	0.042	2.24	0.47
13	17.826	2.750	-1.230	0.928	977.9	1449.7	501.0	82.1	0.923	0.996	1.000	0.008	0.995	0.011	0.039	2.25	0.55
14	18.492	2.750	-1.230	0.928	977.8	1450.8	501.4	82.0	0.900	0.974	0.999	0.030	0.974	0.009	0.027	1.61	0.55
15	19.158	2.750	-1.230	0.929	978.5	1450.4	501.7	82.0	0.904	0.977	0.999	0.044	0.977	0.009	0.020	1.19	0.51
16	19.824	2.750	-1.230	0.928	977.3	1448.9	500.6	81.8	0.912	0.985	1.000	0.029	0.985	0.009	0.017	1.01	0.50

DATE 9-MAR-78 PROJECT NO P41C-NOC

V ARD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 678 3.001 2.00

CONFIG 21

SURVEY ALFAS 906 2.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPU	UL/VM	VL/VM	WL/VM	ALL	SWL
1	9.834	0.750	-2.208	0.926	975.8	1450.1	500.1	82.0	0.923	0.998	0.999	0.003	0.998	0.006	0.019	1.09	0.36
2	10.500	0.750	-2.208	0.927	977.3	1451.1	501.2	82.1	0.910	0.984	0.998	0.029	0.984	0.005	0.015	0.88	0.32
3	11.166	0.750	-2.208	0.927	976.8	1448.9	500.2	82.1	0.902	0.977	1.000	0.045	0.977	0.004	0.010	0.56	0.24
4	11.832	0.750	-2.208	0.924	974.4	1448.9	498.8	81.9	0.901	0.978	0.999	0.043	0.978	0.002	0.005	0.28	0.13
5	12.498	0.750	-2.208	0.925	975.2	1449.8	499.6	82.0	0.908	0.984	1.000	0.031	0.984	0.002	0.002	0.12	0.09
6	13.164	0.750	-2.208	0.925	974.8	1450.8	499.7	82.0	0.917	0.993	0.999	0.012	0.993	0.001	0.001	0.08	0.06
7	13.830	0.750	-2.208	0.926	976.4	1449.8	500.3	82.0	0.928	1.002	0.999	-0.005	1.002	0.001	0.003	0.15	0.05
8	14.496	0.750	-2.208	0.925	975.1	1449.2	499.3	82.1	0.942	1.016	1.000	-0.032	1.016	0.002	0.004	0.25	0.09
9	15.162	0.750	-2.208	0.926	976.0	1451.4	500.6	82.0	0.958	1.030	0.999	-0.061	1.030	0.002	0.007	0.41	0.13
10	15.828	0.750	-2.208	0.927	977.3	1450.6	501.0	82.1	0.972	1.041	0.998	-0.085	1.041	0.003	0.012	0.64	0.15
11	16.494	0.750	-2.208	0.927	977.5	1451.1	501.3	82.1	0.987	1.054	0.999	-0.110	1.054	0.005	0.018	0.98	0.27
12	17.160	0.750	-2.208	0.927	976.8	1449.3	500.3	82.0	0.969	1.038	1.000	-0.077	1.038	0.008	0.022	1.23	0.46
13	17.826	0.750	-2.208	0.927	977.2	1449.3	500.6	82.0	0.934	1.006	0.999	-0.015	1.006	0.008	0.022	1.27	0.47
15	18.492	0.750	-2.208	0.928	978.3	1449.7	501.3	82.0	0.921	0.993	0.999	0.012	0.993	0.006	0.019	1.07	0.36
18	19.158	0.750	-2.208	0.926	976.4	1450.3	500.4	82.1	0.916	0.991	0.999	0.017	0.990	0.005	0.015	0.89	0.30
19	19.824	0.750	-2.208	0.928	978.3	1448.5	501.3	82.0	0.918	0.990	1.000	0.019	0.990	0.004	0.014	0.80	0.24

DATE 9-MAR-78 PROJECT NO P41C-NUC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AFNOLD AIR FORCE STATION, TENNESSEE

TEST PAST REX10-6 ALFA CONFIG SURVEY ALFAS

TC-932 681 2.977 2.00 21 909 2.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M'	VM	PT	O	TT	ML	WML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-3.708	0.921	970.2	1434.1	492.3	80.0	0.922	1.001	1.000	-0.002	1.001	-0.001	0.023	1.33	-0.07
2	10.167	0.000	-3.708	0.922	970.9	1434.5	492.8	80.0	0.918	0.996	0.999	0.006	0.996	-0.001	0.022	1.28	-0.07
3	10.500	0.000	-3.708	0.923	971.7	1434.4	493.3	80.0	0.915	0.993	0.999	0.013	0.992	-0.001	0.021	1.19	-0.06
4	10.833	0.000	-3.708	0.923	972.0	1433.8	493.2	80.1	0.913	0.990	0.999	0.018	0.990	-0.001	0.019	1.10	-0.08
5	11.166	0.000	-3.708	0.924	972.9	1438.1	495.2	80.1	0.913	0.989	0.999	0.020	0.989	-0.001	0.017	1.00	-0.07
6	11.499	0.000	-3.708	0.924	972.8	1440.9	496.1	80.2	0.911	0.988	0.999	0.022	0.988	-0.001	0.016	0.90	-0.08
7	11.832	0.000	-3.708	0.925	973.3	1441.4	496.6	80.1	0.911	0.987	0.999	0.024	0.987	-0.001	0.014	0.82	-0.08
8	12.165	0.000	-3.708	0.925	973.9	1446.9	497.7	80.2	0.913	0.988	0.999	0.021	0.988	-0.001	0.013	0.73	-0.05
9	12.498	0.000	-3.708	0.925	973.6	1444.2	497.7	80.2	0.913	0.989	1.000	0.022	0.989	-0.001	0.012	0.70	-0.06
10	12.831	0.000	-3.708	0.926	974.7	1445.3	498.6	80.4	0.916	0.991	0.999	0.017	0.991	-0.001	0.011	0.63	-0.05
11	13.164	0.000	-3.708	0.928	976.1	1446.3	499.7	80.4	0.921	0.994	0.999	0.010	0.994	-0.001	0.011	0.62	-0.05
12	13.497	0.000	-3.708	0.928	976.1	1444.1	498.9	80.5	0.925	0.997	1.000	0.005	0.997	-0.001	0.010	0.60	-0.04
13	13.830	0.000	-3.708	0.930	978.4	1452.3	503.0	80.6	0.933	1.002	0.998	-0.007	1.002	-0.001	0.010	0.59	-0.04
14	14.163	0.000	-3.708	0.929	977.2	1447.9	500.8	80.7	0.933	1.004	0.999	-0.011	1.004	-0.001	0.011	0.65	-0.05
15	14.496	0.000	-3.708	0.928	976.9	1447.2	500.3	80.8	0.937	1.008	0.999	-0.017	1.008	-0.001	0.012	0.68	-0.03
16	14.829	0.000	-3.708	0.927	976.3	1448.8	500.4	81.1	0.944	1.015	0.999	-0.031	1.015	-0.001	0.013	0.71	-0.04
17	15.162	0.000	-3.708	0.922	973.0	1447.6	497.4	81.1	0.941	1.018	0.999	-0.036	1.017	-0.001	0.014	0.80	-0.03
18	15.495	0.000	-3.708	0.923	973.0	1446.3	497.5	81.2	0.948	1.023	1.000	-0.046	1.023	-0.000	0.016	0.89	-0.02
19	15.828	0.000	-3.708	0.926	975.8	1448.0	499.7	81.3	0.956	1.027	0.999	-0.056	1.027	-0.001	0.017	0.95	-0.04
20	16.161	0.000	-3.708	0.927	976.3	1447.0	498.6	81.3	0.961	1.031	0.999	-0.064	1.031	-0.001	0.020	1.08	-0.05
21	16.494	0.000	-3.708	0.924	974.0	1447.9	498.6	81.4	0.959	1.032	0.999	-0.064	1.031	-0.001	0.022	1.21	-0.05
22	16.827	0.000	-3.708	0.925	974.8	1446.2	498.4	81.4	0.957	1.029	1.000	-0.058	1.028	-0.001	0.024	1.32	-0.06
23	17.160	0.000	-3.708	0.927	976.6	1448.5	500.3	81.4	0.954	1.025	0.999	-0.050	1.024	-0.001	0.025	1.39	-0.04
24	17.493	0.000	-3.708	0.927	976.8	1447.3	500.0	81.4	0.945	1.016	0.999	-0.033	1.015	-0.000	0.026	1.46	-0.02
25	17.826	0.000	-3.708	0.927	976.1	1448.0	499.8	81.4	0.937	1.010	1.000	-0.020	1.009	-0.001	0.025	1.43	-0.04
26	18.159	0.000	-3.708	0.929	978.0	1448.3	501.0	81.4	0.934	1.005	0.996	-0.012	1.004	-0.001	0.024	1.40	-0.05
27	18.492	0.000	-3.708	0.927	976.5	1447.0	499.7	81.4	0.927	1.000	1.000	0.000	0.999	-0.001	0.024	1.35	-0.04
28	18.825	0.000	-3.708	0.928	977.0	1447.9	500.3	81.4	0.924	0.996	0.999	0.006	0.996	-0.001	0.022	1.28	-0.05
29	19.158	0.000	-3.708	0.929	978.3	1445.9	500.5	81.2	0.923	0.994	1.000	0.012	0.994	-0.001	0.022	1.25	-0.05
30	19.491	0.000	-3.708	0.930	978.5	1445.4	500.4	81.2	0.923	0.994	0.999	0.011	0.994	-0.001	0.020	1.16	-0.05

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 679 2.995 2.00 21 907 2.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VM/VM	PT/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SKL
1	9.834	0.000	-2.958	0.920	970.7	1450.5	497.1	82.0	0.920	1.000	0.999	-0.000	0.999	-0.001	0.021	1.20	-0.06
2	10.167	0.000	-2.958	0.925	975.6	1451.0	500.2	82.0	0.918	0.993	0.999	0.012	0.993	-0.001	0.019	1.12	-0.07
3	10.500	0.000	-2.958	0.926	975.6	1449.4	499.8	81.8	0.913	0.989	0.999	0.020	0.989	-0.001	0.018	1.04	-0.06
4	10.833	0.000	-2.958	0.925	975.3	1448.7	499.4	81.7	0.910	0.986	0.999	0.028	0.985	-0.001	0.016	0.95	-0.08
5	11.166	0.000	-2.958	0.927	976.7	1448.3	499.9	82.0	0.908	0.983	0.999	0.032	0.983	-0.001	0.014	0.84	-0.05
6	11.499	0.000	-2.958	0.927	976.6	1447.9	499.8	82.0	0.908	0.982	1.000	0.035	0.982	-0.001	0.012	0.71	-0.06
7	11.832	0.000	-2.958	0.927	976.9	1448.2	500.1	81.9	0.909	0.983	0.999	0.033	0.983	-0.001	0.011	0.61	-0.06
8	12.165	0.000	-2.958	0.926	975.8	1446.3	498.9	81.7	0.910	0.985	0.999	0.029	0.985	-0.001	0.009	0.52	-0.06
9	12.498	0.000	-2.958	0.925	974.9	1445.0	497.9	81.7	0.911	0.987	0.999	0.025	0.987	-0.001	0.008	0.45	-0.05
10	12.831	0.000	-2.958	0.926	975.8	1445.1	498.4	81.7	0.914	0.989	0.999	0.021	0.989	-0.001	0.007	0.40	-0.04
11	13.164	0.000	-2.958	0.927	976.3	1444.2	498.6	81.5	0.919	0.993	0.999	0.013	0.993	-0.001	0.007	0.38	-0.05
12	13.497	0.000	-2.958	0.928	977.9	1445.5	500.0	81.4	0.924	0.996	0.999	0.006	0.996	-0.001	0.007	0.40	-0.03
13	13.830	0.000	-2.958	0.929	978.4	1444.8	500.1	81.3	0.930	1.001	0.999	-0.003	1.001	-0.000	0.007	0.39	-0.01
14	14.163	0.000	-2.958	0.925	975.2	1444.9	498.3	81.2	0.933	1.007	0.999	-0.015	1.007	-0.000	0.007	0.43	-0.02
15	14.496	0.000	-2.958	0.927	975.9	1444.7	498.6	81.2	0.937	1.010	0.999	-0.022	1.010	-0.001	0.009	0.50	-0.03
16	14.829	0.000	-2.958	0.924	973.5	1445.5	497.6	81.1	0.942	1.017	0.999	-0.035	1.017	-0.000	0.010	0.57	-0.02
17	15.162	0.000	-2.958	0.926	974.7	1445.3	498.3	80.9	0.948	1.020	0.999	-0.043	1.020	-0.000	0.012	0.65	-0.01
18	15.495	0.000	-2.958	0.927	975.9	1446.0	499.3	80.8	0.957	1.028	0.999	-0.057	1.028	-0.000	0.013	0.73	-0.00
19	15.828	0.000	-2.958	0.925	974.0	1443.8	497.5	80.7	0.960	1.032	0.999	-0.066	1.032	-0.001	0.015	0.82	-0.03
20	16.161	0.000	-2.958	0.926	975.2	1445.0	498.6	80.7	0.968	1.038	1.000	-0.078	1.038	-0.001	0.017	0.93	-0.04
21	16.494	0.000	-2.958	0.927	975.9	1444.6	498.9	80.7	0.974	1.042	0.999	-0.086	1.042	-0.001	0.019	1.07	-0.04
22	16.827	0.000	-2.958	0.927	976.2	1444.2	498.9	80.7	0.965	1.034	0.999	-0.070	1.034	-0.001	0.022	1.21	-0.04
23	17.160	0.000	-2.958	0.926	975.0	1444.9	498.5	80.7	0.956	1.028	0.999	-0.056	1.027	-0.000	0.023	1.26	-0.01
24	17.493	0.000	-2.958	0.928	976.9	1444.0	499.2	80.7	0.946	1.017	0.999	-0.034	1.016	-0.000	0.024	1.35	-0.01
25	17.826	0.000	-2.958	0.929	977.5	1445.9	500.2	80.8	0.938	1.009	0.999	-0.020	1.009	-0.000	0.023	1.30	-0.01
28	18.159	0.000	-2.958	0.927	975.8	1444.4	498.8	80.7	0.930	1.002	0.999	-0.006	1.002	-0.000	0.022	1.25	-0.01
29	18.492	0.000	-2.958	0.928	977.1	1445.2	499.7	80.8	0.924	0.996	0.999	0.006	0.996	-0.000	0.021	1.19	-0.01
30	18.825	0.000	-2.958	0.929	977.3	1445.2	499.9	80.7	0.922	0.994	0.999	0.011	0.994	-0.000	0.019	1.12	-0.03
31	19.158	0.000	-2.958	0.928	976.8	1444.3	499.3	80.7	0.920	0.993	1.000	0.014	0.992	-0.000	0.018	1.06	-0.03
32	19.491	0.000	-2.958	0.929	977.5	1445.1	500.0	80.7	0.921	0.992	0.999	0.014	0.992	-0.000	0.017	1.00	-0.02

DATE 9-MAR-78 PROJECT NO PAIC-NOC

V ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 680 2.996 2.00 21 908 2.02

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SAL
1	9.834	0.000	-2.208	0.924	972.9	1444.2	497.0	80.7	0.919	0.995	0.999	0.008	0.995	-0.001	0.015	0.87	0.66
2	10.167	0.000	-2.208	0.924	973.4	1444.2	497.3	80.7	0.914	0.990	0.999	0.018	0.990	-0.001	0.014	0.79	0.67
3	10.500	0.000	-2.208	0.925	974.1	1444.4	497.7	80.7	0.908	0.985	0.999	0.030	0.984	-0.001	0.012	0.70	0.67
4	10.833	0.000	-2.208	0.926	974.4	1444.6	498.0	80.6	0.903	0.980	0.999	0.038	0.980	-0.001	0.011	0.62	0.68
5	11.166	0.000	-2.208	0.926	974.4	1444.3	498.0	80.6	0.902	0.979	0.999	0.042	0.979	-0.001	0.009	0.50	0.68
6	11.499	0.000	-2.208	0.927	975.4	1444.9	498.8	80.4	0.903	0.978	0.999	0.043	0.977	-0.001	0.006	0.37	0.68
7	11.832	0.000	-2.208	0.927	975.7	1444.1	498.7	80.4	0.904	0.979	0.999	0.042	0.979	-0.001	0.005	0.28	0.66
8	12.165	0.000	-2.208	0.928	976.5	1444.6	499.3	80.5	0.906	0.980	0.999	0.038	0.980	-0.001	0.003	0.18	0.66
9	12.498	0.000	-2.208	0.929	977.5	1445.0	500.0	80.6	0.911	0.984	0.999	0.031	0.984	-0.001	0.002	0.11	0.66
12	12.831	0.000	-2.208	0.928	977.0	1444.4	499.5	80.6	0.915	0.988	0.999	0.023	0.988	-0.001	0.002	0.10	0.66
13	13.164	0.000	-2.208	0.921	969.9	1444.9	495.6	80.5	0.914	0.994	0.999	0.011	0.994	-0.001	0.002	0.11	0.65
14	13.497	0.000	-2.208	0.921	970.6	1444.4	495.8	80.5	0.919	0.998	0.999	0.003	0.998	-0.001	0.003	0.16	0.65
15	13.830	0.000	-2.208	0.923	971.6	1444.5	496.4	80.5	0.926	1.003	0.999	-0.008	1.003	-0.001	0.003	0.19	0.65
16	14.163	0.000	-2.208	0.923	972.4	1444.5	496.9	80.5	0.932	1.008	1.000	-0.017	1.008	-0.001	0.004	0.21	0.63
17	14.496	0.000	-2.208	0.925	974.0	1444.9	498.0	80.4	0.931	1.014	0.999	-0.030	1.014	-0.001	0.005	0.29	0.64
18	14.829	0.000	-2.208	0.925	974.1	1444.1	497.8	80.5	0.939	1.021	0.999	-0.044	1.021	-0.000	0.006	0.34	0.63
19	15.162	0.000	-2.208	0.923	972.1	1440.3	495.4	80.4	0.932	1.036	1.000	-0.053	1.026	-0.000	0.008	0.43	0.62
20	15.495	0.000	-2.208	0.925	973.7	1437.6	495.4	80.2	0.933	1.035	1.000	-0.070	1.035	-0.000	0.010	0.53	0.61
21	15.828	0.000	-2.208	0.928	975.7	1436.9	496.4	80.1	0.974	1.042	0.999	-0.086	1.042	-0.000	0.011	0.58	0.62
22	16.161	0.000	-2.208	0.929	977.3	1435.5	496.6	80.2	0.984	1.050	0.999	-0.101	1.050	-0.000	0.013	0.70	0.62
23	16.494	0.000	-2.208	0.928	976.0	1434.3	495.6	80.3	0.989	1.056	0.999	-0.113	1.056	-0.000	0.015	0.81	0.62
24	16.827	0.000	-2.208	0.924	972.7	1431.3	492.7	80.1	0.972	1.043	0.999	-0.088	1.043	-0.000	0.017	0.94	0.62
25	17.160	0.000	-2.208	0.924	972.9	1432.3	493.3	80.0	0.958	1.031	0.999	-0.063	1.031	0.000	0.018	1.06	0.61
26	17.493	0.000	-2.208	0.927	975.0	1432.8	494.6	80.1	0.946	1.018	0.999	-0.038	1.018	0.000	0.019	1.06	0.61
27	17.826	0.000	-2.208	0.927	974.8	1432.1	494.3	80.0	0.933	1.006	0.999	-0.015	1.006	-0.000	0.018	1.02	0.61
28	18.159	0.000	-2.208	0.927	975.1	1431.4	494.2	80.1	0.926	0.999	0.999	0.000	0.999	-0.000	0.017	0.96	0.60
29	18.492	0.000	-2.208	0.928	976.2	1432.3	495.1	80.1	0.921	0.994	0.999	0.011	0.994	0.000	0.015	0.89	0.61
30	18.825	0.000	-2.208	0.926	974.1	1432.6	494.0	80.1	0.916	0.991	0.999	0.016	0.991	-0.000	0.014	0.83	0.60
31	19.158	0.000	-2.208	0.928	975.9	1433.0	495.2	80.0	0.916	0.983	0.999	0.019	0.989	-0.000	0.013	0.77	0.60
32	19.491	0.000	-2.208	0.927	975.7	1431.8	494.6	80.1	0.917	0.990	0.999	0.019	0.990	0.000	0.012	0.71	0.62

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 682 2.996 2.00

SURVEY ALFAS
910 2.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	0.924	973.7	1447.0	498.0	81.5	0.921	0.997	1.000	0.006	0.997	-0.009	0.020	1.14	-0.52
2	11.167	-0.750	-2.208	0.926	975.8	1447.8	499.6	81.4	0.902	0.977	1.000	0.045	0.977	-0.007	0.010	0.61	-0.38
3	12.500	-0.750	-2.208	0.929	978.4	1448.5	501.3	81.4	0.910	0.982	0.999	0.033	0.982	-0.004	0.003	0.18	-0.24
5	13.833	-0.750	-2.208	0.925	974.3	1448.5	498.8	81.5	0.928	1.003	0.999	-0.009	1.003	-0.002	0.003	0.20	-0.14
6	15.166	-0.750	-2.208	0.927	976.1	1448.9	500.0	81.5	0.957	1.028	0.999	-0.059	1.028	-0.003	0.008	0.43	-0.15
7	16.499	-0.750	-2.208	0.927	976.4	1448.5	500.1	81.5	0.988	1.055	0.999	-0.112	1.055	-0.006	0.018	0.96	-0.34
9	17.832	-0.750	-2.208	0.928	977.7	1448.5	500.8	81.6	0.934	1.005	0.999	-0.013	1.005	-0.008	0.021	1.19	-0.47
12	19.165	-0.750	-2.208	0.926	975.6	1448.5	499.6	81.6	0.915	0.990	0.999	0.018	0.990	-0.005	0.015	0.85	-0.27
14	20.498	-0.750	-2.208	0.928	977.4	1448.5	500.6	81.6	0.924	0.997	0.999	0.005	0.997	-0.004	0.012	0.70	-0.24

DATE 9-MAR-78 PROJECT NO P41C-N0C

ASO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 643 3.001 2.00 21 911 2.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-1.230	0.926	976.1	1448.9	499.9	81.7	0.906	0.982	0.999	0.035	0.981	-0.017	0.032	1.89	-0.97
2	11.833	-2.750	-1.230	0.926	975.9	1447.5	499.4	81.7	0.881	0.958	0.999	0.083	0.957	-0.027	0.005	0.30	-1.64
3	13.166	-2.750	-1.230	0.925	975.0	1447.7	499.0	81.5	0.905	0.981	0.999	0.037	0.981	-0.015	-0.011	-0.56	-0.89
4	14.499	-2.750	-1.230	0.927	976.5	1448.1	500.1	81.4	0.941	1.012	0.999	-0.026	1.012	-0.006	-0.005	-0.31	-0.31
6	15.832	-2.750	-1.230	0.926	975.8	1447.5	499.4	81.5	0.981	1.049	0.999	-0.100	1.049	-0.003	0.010	0.57	-0.16
7	17.165	-2.750	-1.230	0.929	978.0	1447.7	500.8	81.4	0.994	1.059	0.999	-0.120	1.059	-0.012	0.040	2.17	-0.65
10	18.498	-2.750	-1.230	0.929	978.1	1447.9	500.8	81.7	0.898	0.972	0.999	0.055	0.972	-0.009	0.022	1.32	-0.56
13	19.831	-2.750	-1.230	0.927	977.0	1447.1	499.9	81.6	0.914	0.997	1.000	0.025	0.987	-0.008	0.013	0.77	-0.44

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.
AEDC DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 684 3.005 5.00 21 901 5.00

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
6	10.500	4.250	-1.230	0.929	978.8	1449.7	501.7	81.9	0.906	0.979	0.999	0.040	0.975	0.017	0.092	5.40	1.00
7	11.166	4.250	-1.230	0.927	976.7	1449.1	500.3	81.8	0.893	0.968	1.000	0.062	0.964	0.027	0.089	5.25	1.58
8	11.832	4.250	-1.230	0.925	974.8	1449.5	499.4	81.7	0.877	0.955	0.999	0.088	0.951	0.039	0.083	5.00	2.37
9	12.498	4.250	-1.230	0.926	975.9	1449.1	500.0	81.6	0.861	0.939	0.998	0.120	0.934	0.058	0.073	4.46	3.53
10	13.164	4.250	-1.230	0.927	977.0	1447.4	499.9	81.7	0.851	0.929	0.999	0.140	0.926	0.065	0.047	2.90	4.01
11	13.830	4.250	-1.230	0.926	976.2	1449.1	500.0	81.9	0.862	0.940	0.999	0.118	0.938	0.058	0.027	1.62	3.53
12	14.496	4.250	-1.230	0.928	977.5	1449.4	500.6	81.7	0.884	0.959	0.999	0.080	0.958	0.046	0.018	1.09	2.76
14	15.162	4.250	-1.230	0.928	977.4	1446.0	500.5	81.6	0.909	0.983	0.999	0.033	0.982	0.036	0.018	1.06	2.15
15	15.828	4.250	-1.230	0.925	975.1	1447.8	499.0	81.7	0.929	1.003	1.000	-0.007	1.003	0.030	0.023	1.33	1.72
16	16.494	4.250	-1.230	0.929	978.6	1449.1	501.5	81.7	0.960	1.028	0.999	-0.058	1.027	0.025	0.033	1.83	1.41
18	17.160	4.250	-1.230	0.927	976.4	1448.9	500.1	81.7	1.004	1.070	0.999	-0.141	1.068	0.029	0.054	2.87	1.57
19	17.826	4.250	-1.230	0.929	978.8	1448.0	501.2	81.7	0.932	1.002	0.999	-0.006	1.000	0.036	0.055	3.16	2.04
20	18.492	4.250	-1.230	0.930	979.0	1448.8	501.6	81.7	0.901	0.973	0.999	0.052	0.972	0.037	0.044	2.59	2.19
23	19.158	4.250	-1.230	0.927	977.1	1449.0	500.5	81.8	0.904	0.978	0.999	0.042	0.977	0.038	0.037	2.18	2.22
24	19.824	4.250	-1.230	0.930	979.5	1450.0	502.2	81.9	0.912	0.984	0.999	0.031	0.982	0.039	0.034	2.00	2.26

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

TC-532 687 3,000 5.00 21 SURVEY ALFAS 904 5.01

DATE 2-22-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SNL
1	10.500	3.500	-2.730	0.924	974.2	1449.7	499.1	81.8	0.901	0.978	0.999	0.999	0.043	0.975	0.018	0.051	4.76
2	10.833	3.500	-2.730	0.925	974.6	1447.2	498.5	81.7	0.896	0.973	0.999	0.999	0.052	0.970	0.019	0.078	4.61
3	11.166	3.500	-2.730	0.925	974.9	1448.4	499.1	81.7	0.891	0.969	0.999	0.999	0.061	0.965	0.022	0.075	4.55
4	11.499	3.500	-2.730	0.926	975.9	1448.6	499.7	81.8	0.888	0.964	0.999	0.999	0.069	0.961	0.025	0.071	4.47
5	11.832	3.500	-2.730	0.926	976.4	1448.3	499.8	81.9	0.884	0.961	0.999	0.999	0.077	0.958	0.026	0.067	4.03
6	12.165	3.500	-2.730	0.927	976.6	1450.0	500.5	81.9	0.883	0.959	0.999	0.999	0.080	0.957	0.029	0.063	3.74
7	12.498	3.500	-2.730	0.928	977.3	1451.4	501.4	81.9	0.882	0.957	0.999	0.999	0.083	0.955	0.030	0.058	3.50
8	12.831	3.500	-2.730	0.928	977.2	1448.6	500.5	81.7	0.882	0.957	0.999	0.999	0.084	0.955	0.031	0.054	3.23
9	13.164	3.500	-2.730	0.925	975.0	1447.3	498.8	81.7	0.882	0.960	1.000	1.000	0.079	0.958	0.031	0.050	2.99
10	13.497	3.500	-2.730	0.926	976.1	1450.0	500.2	81.9	0.886	0.962	0.999	0.999	0.073	0.961	0.030	0.046	2.76
11	13.830	3.500	-2.730	0.924	974.0	1449.0	498.7	81.9	0.888	0.967	1.000	1.000	0.067	0.965	0.030	0.044	2.59
12	14.163	3.500	-2.730	0.926	975.6	1450.5	500.1	81.8	0.894	0.970	0.999	0.999	0.058	0.969	0.028	0.041	2.44
13	14.496	3.500	-2.730	0.926	976.1	1448.6	499.8	81.8	0.899	0.975	0.999	0.999	0.049	0.974	0.027	0.040	2.34
14	14.829	3.500	-2.730	0.925	974.9	1449.7	499.4	81.9	0.905	0.982	0.999	0.999	0.035	0.981	0.026	0.039	2.27
15	15.162	3.500	-2.730	0.925	975.6	1450.3	500.1	81.9	0.912	0.987	0.999	0.999	0.024	0.986	0.025	0.038	2.23
16	15.495	3.500	-2.730	0.928	977.8	1451.0	501.6	81.9	0.919	0.992	0.998	0.998	0.014	0.991	0.023	0.039	2.27
17	15.828	3.500	-2.730	0.924	978.4	1450.0	501.6	81.9	0.929	1.000	0.999	0.999	-0.001	0.999	0.022	0.041	2.35
20	16.161	3.500	-2.730	0.923	972.8	1449.7	498.2	81.8	0.930	1.007	0.999	0.999	-0.016	1.006	0.022	0.044	2.48
21	16.494	3.500	-2.730	0.923	973.7	1449.3	498.6	81.9	0.939	1.014	1.000	1.000	-0.029	1.013	0.022	0.046	2.61
22	16.827	3.500	-2.730	0.926	976.0	1449.2	499.9	81.9	0.948	1.020	0.999	0.999	-0.041	1.018	0.022	0.050	2.80
23	17.160	3.500	-2.730	0.926	976.1	1449.6	500.1	81.9	0.951	1.022	1.000	1.000	-0.045	1.021	0.023	0.051	2.99
24	17.493	3.500	-2.730	0.927	977.0	1449.7	500.6	81.9	0.942	1.014	0.999	0.999	-0.029	1.012	0.025	0.055	3.12
25	17.826	3.500	-2.730	0.928	977.9	1449.0	501.0	81.8	0.935	1.007	0.999	0.999	-0.014	1.005	0.026	0.056	3.16
26	18.159	3.500	-2.730	0.928	977.4	1450.0	501.0	81.9	0.925	0.998	0.999	0.999	0.003	0.996	0.026	0.053	3.05
27	18.492	3.500	-2.730	0.929	978.6	1449.9	501.6	81.9	0.918	0.990	0.999	0.999	0.018	0.988	0.026	0.051	2.95
28	18.825	3.500	-2.730	0.928	977.8	1450.9	501.6	81.9	0.916	0.989	0.999	0.999	0.020	0.986	0.026	0.049	2.83
29	19.158	3.500	-2.730	0.927	976.7	1449.1	500.2	82.0	0.913	0.988	0.999	0.999	0.024	0.986	0.026	0.048	2.76
30	19.491	3.500	-2.730	0.927	977.3	1449.4	500.7	81.9	0.914	0.988	0.999	0.999	0.023	0.987	0.026	0.045	2.64

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 685 2.996 5.00 21 902 5.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SWL
1	10.500	3.500	-1.980	0.923	973.1	1448.5	498.0	81.8	0.897	0.976	0.999	0.047	0.972	0.020	0.086	5.07	1.17
2	10.833	3.500	-1.980	0.924	974.1	1450.2	499.1	81.9	0.891	0.969	0.999	0.060	0.966	0.020	0.083	4.88	1.40
3	11.166	3.500	-1.980	0.925	974.8	1450.3	499.6	81.9	0.883	0.961	0.999	0.075	0.958	0.028	0.079	4.71	1.69
4	11.499	3.500	-1.980	0.925	974.6	1448.7	498.9	81.8	0.877	0.956	0.999	0.087	0.952	0.032	0.074	4.46	1.92
5	11.832	3.500	-1.980	0.926	975.5	1450.7	500.2	81.8	0.873	0.951	0.999	0.096	0.948	0.036	0.068	4.13	2.15
6	12.165	3.500	-1.980	0.925	975.3	1447.0	498.8	81.7	0.869	0.947	0.999	0.104	0.945	0.039	0.062	3.75	2.35
7	12.498	3.500	-1.980	0.926	976.0	1448.4	499.6	81.8	0.867	0.945	0.999	0.108	0.943	0.041	0.055	3.31	2.47
8	12.831	3.500	-1.980	0.927	977.1	1449.7	500.8	81.8	0.869	0.945	0.999	0.108	0.943	0.041	0.047	2.88	2.47
9	13.164	3.500	-1.980	0.927	977.1	1448.9	500.5	81.8	0.871	0.948	0.999	0.103	0.946	0.040	0.041	2.50	2.41
10	13.497	3.500	-1.980	0.928	978.0	1449.4	501.2	81.8	0.876	0.952	0.999	0.095	0.950	0.039	0.036	2.20	2.33
11	13.830	3.500	-1.980	0.929	978.8	1448.9	501.5	81.7	0.884	0.958	0.999	0.083	0.957	0.036	0.033	1.97	2.18
12	14.163	3.500	-1.980	0.927	976.7	1446.8	499.5	81.7	0.891	0.966	1.000	0.087	0.965	0.034	0.030	1.77	2.01
13	14.496	3.500	-1.980	0.928	977.4	1447.7	500.3	81.7	0.897	0.972	1.000	0.056	0.971	0.032	0.029	1.72	1.87
14	14.829	3.500	-1.980	0.927	976.5	1449.6	500.4	81.7	0.904	0.979	0.999	0.039	0.978	0.030	0.029	1.70	1.73
15	15.162	3.500	-1.980	0.925	975.1	1448.5	499.3	81.7	0.911	0.987	0.999	0.023	0.986	0.027	0.030	1.75	1.55
16	15.495	3.500	-1.980	0.926	976.2	1448.8	499.9	81.8	0.920	0.994	0.999	0.010	0.994	0.025	0.031	1.80	1.33
17	15.828	3.500	-1.980	0.928	977.3	1450.0	501.0	81.8	0.932	1.004	1.000	-0.009	1.004	0.024	0.033	1.90	1.35
18	16.161	3.500	-1.980	0.925	975.5	1447.7	499.2	81.7	0.939	1.012	1.000	-0.025	1.012	0.023	0.037	2.08	1.29
19	16.494	3.500	-1.980	0.927	976.5	1449.8	500.4	81.9	0.950	1.021	0.999	-0.045	1.020	0.022	0.042	2.34	1.24
20	16.827	3.500	-1.980	0.928	977.8	1449.9	501.2	81.8	0.964	1.033	0.999	-0.067	1.031	0.023	0.047	2.61	1.25
21	17.160	3.500	-1.980	0.927	976.6	1449.0	500.3	81.7	0.962	1.032	0.999	-0.086	1.031	0.025	0.053	2.92	1.40
22	17.493	3.500	-1.980	0.927	976.7	1449.4	500.4	81.8	0.949	1.020	0.999	-0.042	1.018	0.027	0.055	3.10	1.53
23	17.826	3.500	-1.980	0.928	977.2	1448.8	500.6	81.7	0.931	1.003	0.999	-0.07	1.001	0.029	0.054	3.10	1.63
24	18.159	3.500	-1.980	0.926	975.8	1448.5	499.6	81.8	0.916	0.991	0.999	0.018	0.989	0.029	0.051	2.93	1.67
25	18.492	3.500	-1.980	0.928	977.6	1448.7	500.9	81.8	0.910	0.983	0.999	0.032	0.982	0.029	0.047	2.75	1.68
26	18.825	3.500	-1.980	0.928	977.9	1449.5	501.2	81.7	0.909	0.982	0.999	0.034	0.981	0.029	0.044	2.57	1.70
27	19.158	3.500	-1.980	0.930	979.1	1447.4	501.2	81.7	0.910	0.981	0.999	0.036	0.980	0.029	0.042	2.48	1.70
28	19.491	3.500	-1.980	0.929	978.4	1449.8	501.6	81.8	0.912	0.985	0.999	0.030	0.983	0.029	0.040	2.33	1.70

DATE 9-MAR-78 PROJECT NO P41C-NOC

AKO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HX10-6 ALFA CONFIG

TC-532 686 2.999 5.00 21 SURVEY ALFA 903 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.922	972.5	1450.3	498.3	81.8	0.892	0.972	0.999	0.054	0.967	0.023	0.093	5.48	1.34
2	10.833	3.500	-1.230	0.925	974.7	1448.8	499.0	81.9	0.886	0.964	0.999	0.069	0.959	0.028	0.092	5.45	1.67
3	11.166	3.500	-1.230	0.925	974.9	1449.7	499.4	81.9	0.877	0.955	0.999	0.087	0.951	0.035	0.088	5.30	2.14
4	11.499	3.500	-1.230	0.926	975.5	1448.9	499.6	81.7	0.867	0.945	0.999	0.108	0.941	0.043	0.082	5.00	2.63
5	11.832	3.500	-1.230	0.927	976.6	1450.0	500.5	81.8	0.858	0.935	0.999	0.127	0.931	0.052	0.073	4.45	3.21
6	12.165	3.500	-1.230	0.927	976.3	1448.9	500.0	81.8	0.850	0.928	0.999	0.142	0.924	0.058	0.061	3.78	3.57
7	12.498	3.500	-1.230	0.927	976.4	1448.2	499.8	81.8	0.845	0.923	1.000	0.152	0.920	0.060	0.047	2.91	3.72
8	12.831	3.500	-1.230	0.926	976.0	1449.4	500.0	81.8	0.847	0.925	0.999	0.147	0.923	0.058	0.034	2.11	3.62
9	13.164	3.500	-1.230	0.925	975.2	1448.4	499.2	81.8	0.851	0.930	0.999	0.138	0.928	0.055	0.024	1.47	3.36
10	13.497	3.500	-1.230	0.927	976.5	1450.0	500.5	81.9	0.861	0.939	0.999	0.120	0.938	0.049	0.016	1.09	2.99
11	13.830	3.500	-1.230	0.927	977.2	1449.1	500.6	81.9	0.873	0.949	1.000	0.100	0.948	0.044	0.014	0.85	2.63
12	14.163	3.500	-1.230	0.928	977.4	1449.9	501.0	81.8	0.885	0.960	0.999	0.079	0.959	0.039	0.013	0.80	2.31
13	14.496	3.500	-1.230	0.928	977.3	1449.9	500.9	81.8	0.894	0.969	0.999	0.060	0.968	0.034	0.014	0.71	2.03
14	14.829	3.500	-1.230	0.929	978.2	1449.7	501.4	81.7	0.904	0.977	0.999	0.043	0.977	0.031	0.015	0.87	1.82
15	15.162	3.500	-1.230	0.926	976.2	1449.2	500.1	81.8	0.915	0.990	0.999	0.019	0.969	0.027	0.017	1.00	1.59
16	15.495	3.500	-1.230	0.924	974.0	1450.2	499.1	81.9	0.923	0.999	0.999	0.001	0.998	0.025	0.020	1.17	1.45
17	15.828	3.500	-1.230	0.925	974.7	1448.5	499.1	81.8	0.932	1.007	0.999	-0.015	1.006	0.023	0.024	1.37	1.33
18	16.161	3.500	-1.230	0.926	976.4	1449.2	500.1	81.9	0.945	1.017	0.999	-0.036	1.016	0.022	0.023	1.57	1.23
19	16.494	3.500	-1.230	0.928	978.1	1451.2	501.8	82.0	0.969	1.037	0.999	-0.076	1.036	0.020	0.035	1.93	1.12
20	16.827	3.500	-1.230	0.926	975.7	1448.8	499.6	81.8	0.982	1.051	0.999	-0.104	1.050	0.022	0.045	2.43	1.18
21	17.160	3.500	-1.230	0.928	977.5	1449.4	500.8	81.9	0.989	1.056	0.999	-0.113	1.024	0.026	0.053	2.89	1.40
22	17.493	3.500	-1.230	0.927	976.8	1449.3	500.4	81.9	0.954	1.025	0.999	-0.052	1.023	0.029	0.056	3.13	1.61
23	17.826	3.500	-1.230	0.927	976.9	1449.8	500.6	82.0	0.925	0.999	0.999	0.002	0.997	0.030	0.053	3.02	1.74
24	18.159	3.500	-1.230	0.927	977.1	1448.3	500.3	81.8	0.905	0.979	0.999	0.041	0.978	0.031	0.047	2.74	1.79
25	18.492	3.500	-1.230	0.926	975.9	1449.8	500.0	82.0	0.898	0.974	1.000	0.052	0.973	0.031	0.041	2.43	1.82
26	18.825	3.500	-1.230	0.927	976.6	1450.1	500.6	81.9	0.899	0.974	1.000	0.051	0.973	0.031	0.037	2.20	1.83
27	19.158	3.500	-1.230	0.929	978.8	1450.2	501.9	81.9	0.902	0.975	0.999	0.047	0.974	0.031	0.035	2.09	1.82
28	19.491	3.500	-1.230	0.928	977.7	1449.9	501.1	81.9	0.907	0.981	1.000	0.038	0.980	0.031	0.033	1.94	1.82

DATE 9-MAR-78 PROJECT NO P4IC-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALFA CONFIG

TC-532 688 3.001 5.00 21 SURVEY ALFAS

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	0.925	974.7	1450.5	499.6	81.9	0.884	0.962	0.998	0.072	0.957	0.028	0.091	5.44	1.70
2	11.165	2.750	-1.230	0.924	974.4	1449.4	499.0	81.9	0.856	0.936	0.999	0.125	0.932	0.044	0.076	4.68	2.71
3	11.832	2.750	-1.230	0.925	975.3	1448.5	499.3	81.8	0.839	0.919	0.999	0.160	0.916	0.053	0.049	3.07	3.32
4	12.498	2.750	-1.230	0.927	976.6	1447.3	499.7	81.7	0.844	0.922	1.000	0.154	0.921	0.049	0.025	1.58	3.02
5	13.164	2.750	-1.230	0.927	977.1	1448.7	500.5	81.7	0.862	0.938	0.999	0.121	0.938	0.039	0.013	0.81	2.36
6	13.830	2.750	-1.230	0.927	976.6	1447.8	499.9	81.7	0.882	0.958	0.999	0.082	0.957	0.031	0.010	0.62	1.53
7	14.496	2.750	-1.230	0.926	975.5	1449.5	499.8	81.8	0.900	0.976	0.999	0.046	0.976	0.025	0.013	0.75	1.48
8	15.162	2.750	-1.230	0.927	977.1	1448.4	500.3	81.9	0.920	0.993	0.999	0.013	0.993	0.021	0.019	1.03	1.23
10	15.828	2.750	-1.230	0.927	976.5	1448.8	500.0	81.9	0.940	1.012	0.999	-0.025	1.011	0.019	0.025	1.39	1.05
11	16.494	2.750	-1.230	0.926	976.0	1448.4	499.6	81.9	0.954	1.035	0.999	-0.071	1.034	0.018	0.038	2.08	1.02
12	17.160	2.750	-1.230	0.927	976.7	1449.6	500.5	81.9	0.975	1.044	0.999	-0.088	1.042	0.025	0.053	2.91	1.36
15	17.826	2.750	-1.230	0.927	976.5	1449.9	500.5	81.8	0.920	0.994	0.999	0.011	0.992	0.027	0.051	2.97	1.55
16	18.492	2.750	-1.230	0.928	978.0	1449.1	501.1	81.8	0.899	0.973	0.999	0.053	0.971	0.026	0.040	2.38	1.54
17	19.158	2.750	-1.230	0.929	978.9	1449.0	501.6	81.7	0.903	0.975	1.000	0.049	0.974	0.025	0.034	2.02	1.49
19	19.824	2.750	-1.230	0.928	977.4	1448.7	500.6	81.8	0.912	0.985	1.000	0.029	0.984	0.026	0.030	1.77	1.50

DATE 9-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 689 2.996 5.00 21 906 5.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPU	UL/VM	VL/VM	WL/VM	AAL	S*L
1	9.834	0.750	-2.208	0.922	972.3	1449.1	497.8	81.8	0.902	0.981	0.999	0.030	0.979	0.019	0.058	3.41	1.14
2	10.500	0.750	-2.208	0.923	973.1	1449.3	498.2	82.0	0.883	0.963	0.999	0.073	0.961	0.018	0.051	3.06	1.06
3	11.166	0.750	-2.208	0.924	973.9	1449.9	498.6	82.0	0.870	0.950	0.999	0.098	0.949	0.016	0.042	2.51	0.95
4	11.832	0.750	-2.208	0.925	975.2	1449.9	499.7	81.9	0.867	0.945	0.999	0.107	0.945	0.013	0.033	1.99	0.79
5	12.498	0.750	-2.208	0.924	974.5	1448.9	498.9	81.9	0.871	0.950	0.999	0.098	0.949	0.011	0.026	1.57	0.67
6	13.164	0.750	-2.208	0.925	975.4	1449.0	499.5	81.8	0.880	0.958	0.999	0.082	0.958	0.010	0.022	1.34	0.57
7	13.830	0.750	-2.208	0.924	974.4	1449.1	498.9	82.0	0.890	0.969	0.999	0.061	0.968	0.009	0.021	1.26	0.52
8	14.496	0.750	-2.208	0.926	976.0	1448.4	499.6	81.9	0.904	0.979	1.000	0.042	0.979	0.009	0.021	1.22	0.50
9	15.162	0.750	-2.208	0.926	975.9	1450.2	500.2	81.9	0.916	0.991	0.999	0.015	0.991	0.009	0.023	1.34	0.52
10	15.828	0.750	-2.208	0.929	978.4	1449.9	501.6	81.8	0.934	1.005	0.999	-0.011	1.004	0.009	0.026	1.48	0.53
11	16.494	0.750	-2.208	0.927	977.2	1449.8	500.8	81.9	0.949	1.019	0.999	-0.040	1.019	0.011	0.030	1.68	0.61
12	17.160	0.750	-2.208	0.927	976.4	1449.6	500.3	81.9	0.940	1.012	0.999	-0.026	1.011	0.013	0.034	1.93	0.75
13	17.826	0.750	-2.208	0.928	977.3	1448.9	500.9	81.9	0.928	1.000	1.000	0.001	0.999	0.014	0.034	1.96	0.81
15	18.492	0.750	-2.208	0.927	977.2	1450.2	500.9	81.9	0.915	0.989	0.999	0.021	0.988	0.013	0.032	1.87	0.75
16	19.158	0.750	-2.208	0.929	978.6	1449.4	501.5	81.8	0.913	0.985	0.999	0.028	0.984	0.012	0.030	1.72	0.70
19	19.824	0.750	-2.208	0.928	977.7	1448.4	500.7	81.7	0.916	0.988	0.999	0.021	0.988	0.011	0.028	1.60	0.66

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA

TC-332 692 2.990 5.00 21 509 5.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SKL
1	9.834	0.000	-3.708	0.920	970.9	1437.6	486.3	81.9	0.906	0.986	1.000	0.027	0.984	-0.001	0.066	3.84	-0.08
2	10.167	0.000	-3.708	0.922	972.5	1450.4	498.4	81.7	0.902	0.982	0.998	0.035	0.979	-0.002	0.065	3.77	-0.10
3	10.500	0.000	-3.708	0.923	973.0	1458.7	498.1	81.7	0.897	0.976	0.998	0.046	0.974	-0.001	0.063	3.68	-0.08
4	10.833	0.000	-3.708	0.922	972.7	1448.7	497.8	81.8	0.892	0.972	0.999	0.055	0.970	-0.002	0.060	3.54	-0.10
5	11.166	0.000	-3.708	0.924	974.0	1449.2	498.7	81.9	0.889	0.967	0.999	0.063	0.966	-0.002	0.058	3.42	-0.09
6	11.499	0.000	-3.708	0.924	973.6	1448.5	498.3	81.7	0.885	0.964	0.999	0.070	0.962	-0.002	0.055	3.23	-0.10
7	11.832	0.000	-3.708	0.924	974.3	1448.7	498.7	81.9	0.884	0.963	0.999	0.073	0.961	-0.001	0.052	3.08	-0.08
8	12.165	0.000	-3.708	0.925	974.8	1449.6	499.3	81.9	0.884	0.962	0.999	0.074	0.961	-0.001	0.049	2.93	-0.08
9	12.498	0.000	-3.708	0.926	975.8	1450.9	500.3	82.0	0.886	0.963	0.999	0.072	0.962	-0.001	0.046	2.78	-0.08
10	12.831	0.000	-3.708	0.927	976.8	1451.2	501.0	82.0	0.888	0.964	0.999	0.069	0.963	-0.002	0.044	2.60	-0.09
11	13.164	0.000	-3.708	0.927	976.8	1448.9	500.3	81.9	0.889	0.965	0.999	0.068	0.964	-0.002	0.043	2.53	-0.10
12	13.497	0.000	-3.708	0.927	977.4	1449.2	500.6	82.0	0.894	0.969	1.000	0.062	0.968	-0.001	0.041	2.43	-0.07
13	13.830	0.000	-3.708	0.929	978.6	1451.0	502.0	82.0	0.899	0.972	0.999	0.054	0.971	-0.001	0.040	2.35	-0.03
14	14.163	0.000	-3.708	0.925	975.5	1448.8	499.4	82.0	0.899	0.976	0.999	0.046	0.975	-0.001	0.039	2.31	-0.06
15	14.496	0.000	-3.708	0.926	976.2	1449.6	500.1	82.0	0.904	0.979	0.999	0.040	0.979	-0.002	0.039	2.27	-0.10
16	14.829	0.000	-3.708	0.929	978.2	1450.7	501.7	81.9	0.911	0.984	0.999	0.031	0.983	-0.001	0.037	2.18	-0.07
17	15.162	0.000	-3.708	0.929	978.5	1448.9	501.2	82.0	0.915	0.987	0.999	0.024	0.987	-0.001	0.038	2.22	-0.07
18	15.495	0.000	-3.708	0.923	973.1	1449.3	498.2	82.0	0.916	0.993	0.999	0.012	0.993	-0.002	0.039	2.28	-0.09
19	15.828	0.000	-3.708	0.925	974.7	1450.6	499.6	81.9	0.920	0.995	0.999	0.007	0.995	-0.001	0.040	2.32	-0.06
20	16.161	0.000	-3.708	0.927	976.5	1450.1	500.5	81.9	0.927	1.000	0.998	-0.004	1.000	-0.001	0.042	2.40	-0.05
21	16.494	0.000	-3.708	0.928	977.5	1448.5	500.5	81.9	0.931	1.003	1.000	-0.006	1.002	-0.001	0.043	2.47	-0.05
22	16.827	0.000	-3.708	0.926	976.3	1450.7	500.6	81.9	0.931	1.004	0.999	-0.011	1.003	-0.001	0.045	2.54	-0.03
23	17.160	0.000	-3.708	0.927	977.1	1448.4	500.3	81.9	0.931	1.003	0.999	-0.007	1.002	-0.001	0.046	2.63	-0.06
24	17.493	0.000	-3.708	0.925	975.1	1450.1	499.7	81.8	0.928	1.003	0.999	-0.008	1.002	-0.001	0.046	2.61	-0.04
25	17.826	0.000	-3.708	0.926	975.8	1448.7	499.6	82.0	0.923	0.998	0.999	0.003	0.997	-0.001	0.046	2.62	-0.04
26	18.159	0.000	-3.708	0.928	978.2	1450.7	501.7	82.0	0.923	0.995	0.999	0.008	0.994	-0.001	0.045	2.60	-0.05
27	18.492	0.000	-3.708	0.927	976.9	1450.0	500.6	82.0	0.920	0.994	0.999	0.011	0.993	-0.001	0.044	2.58	-0.05
28	18.825	0.000	-3.708	0.928	978.1	1450.0	501.4	82.0	0.919	0.992	0.999	0.016	0.991	-0.001	0.043	2.51	-0.04
29	19.158	0.000	-3.708	0.928	978.2	1449.3	501.2	82.0	0.917	0.989	0.999	0.019	0.989	-0.000	0.042	2.45	-0.03
30	19.491	0.000	-3.708	0.928	977.6	1450.5	501.3	81.9	0.917	0.990	0.999	0.018	0.990	-0.001	0.041	2.40	-0.04

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPELSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 690 2.993 5.00 21 907 5.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	9.834	0.000	-2.958	0.921	970.9	1418.2	496.7	81.7	0.903	0.984	0.999	0.032	0.982	-0.001	0.059	3.46	-0.03
2	10.167	0.000	-2.958	0.922	972.3	1419.7	497.9	81.9	0.897	0.977	0.999	0.045	0.975	-0.001	0.059	3.44	-0.06
3	10.500	0.000	-2.958	0.922	972.1	1450.5	498.1	81.8	0.891	0.971	0.999	0.056	0.970	-0.001	0.056	3.31	-0.06
4	10.833	0.000	-2.958	0.922	972.1	1448.5	497.5	81.7	0.884	0.965	0.999	0.068	0.963	-0.001	0.053	3.16	-0.07
5	11.166	0.000	-2.958	0.923	972.9	1449.8	498.4	81.8	0.880	0.960	0.999	0.077	0.959	-0.001	0.049	2.94	-0.07
6	11.499	0.000	-2.958	0.923	973.5	1449.4	498.5	81.9	0.877	0.957	0.999	0.085	0.956	-0.001	0.046	2.75	-0.07
7	11.832	0.000	-2.958	0.924	974.0	1449.0	498.7	81.9	0.876	0.955	0.999	0.088	0.954	-0.001	0.043	2.57	-0.08
8	12.165	0.000	-2.958	0.924	974.1	1449.0	498.8	81.8	0.877	0.956	1.000	0.088	0.955	-0.001	0.040	2.38	-0.07
9	12.498	0.000	-2.958	0.925	975.2	1448.2	499.2	81.7	0.878	0.956	0.999	0.085	0.956	-0.001	0.037	2.21	-0.08
10	12.831	0.000	-2.958	0.926	975.4	1449.0	499.3	81.7	0.881	0.959	0.999	0.082	0.958	-0.001	0.035	2.08	-0.09
11	13.164	0.000	-2.958	0.927	976.4	1448.3	499.9	81.7	0.886	0.962	0.999	0.074	0.962	-0.001	0.033	1.99	-0.08
12	13.497	0.000	-2.958	0.927	977.2	1448.0	500.2	81.8	0.890	0.965	0.999	0.068	0.965	-0.001	0.032	1.90	-0.08
13	13.830	0.000	-2.958	0.928	978.1	1450.2	501.5	81.8	0.895	0.969	0.995	0.059	0.969	-0.001	0.031	1.83	-0.07
14	14.163	0.000	-2.958	0.930	978.3	1449.2	501.8	81.8	0.900	0.973	0.999	0.052	0.972	-0.001	0.030	1.79	-0.06
15	14.496	0.000	-2.958	0.926	975.5	1447.9	499.2	81.8	0.903	0.979	0.999	0.041	0.979	-0.001	0.030	1.75	-0.06
16	14.829	0.000	-2.958	0.926	976.3	1449.5	500.2	81.9	0.908	0.983	0.999	0.032	0.983	-0.001	0.030	1.73	-0.06
17	15.162	0.000	-2.958	0.928	977.3	1449.5	500.9	81.7	0.916	0.989	0.999	0.021	0.988	-0.001	0.031	1.78	-0.06
18	15.495	0.000	-2.958	0.926	975.7	1449.9	500.0	81.9	0.920	0.994	0.999	0.009	0.994	-0.001	0.032	1.83	-0.05
19	15.828	0.000	-2.958	0.927	976.5	1449.2	500.2	81.8	0.925	0.998	0.999	0.002	0.998	-0.001	0.033	1.89	-0.05
20	16.161	0.000	-2.958	0.928	978.0	1449.0	501.0	81.9	0.933	1.004	0.999	-0.009	1.004	-0.000	0.035	1.94	-0.01
23	16.494	0.000	-2.958	0.923	973.2	1450.7	498.7	82.0	0.931	1.006	0.999	-0.017	1.007	-0.001	0.037	2.08	-0.03
24	16.827	0.000	-2.958	0.924	974.6	1449.3	499.1	81.9	0.931	1.006	0.999	-0.013	1.005	-0.000	0.038	2.17	-0.03
25	17.160	0.000	-2.958	0.926	976.0	1449.3	499.9	81.9	0.933	1.007	1.000	-0.014	1.006	-0.000	0.039	2.25	-0.01
26	17.493	0.000	-2.958	0.928	978.0	1448.6	500.9	81.9	0.931	1.002	0.999	-0.006	1.002	-0.000	0.040	2.26	-0.01
27	17.826	0.000	-2.958	0.925	975.4	1450.4	499.9	82.0	0.924	0.999	0.999	0.001	0.998	-0.000	0.039	2.24	-0.01
28	18.159	0.000	-2.958	0.926	975.6	1449.4	499.7	82.0	0.918	0.993	0.999	0.013	0.992	-0.000	0.038	2.22	-0.00
29	18.492	0.000	-2.958	0.928	977.3	1447.9	500.9	81.8	0.917	0.990	0.999	0.018	0.989	-0.000	0.037	2.16	-0.01
30	18.825	0.000	-2.958	0.928	978.0	1449.6	501.2	81.9	0.916	0.989	0.999	0.021	0.988	-0.000	0.036	2.10	-0.01
31	19.158	0.000	-2.958	0.927	977.2	1448.5	500.4	81.8	0.914	0.988	1.000	0.024	0.987	-0.000	0.035	2.06	-0.00
32	19.491	0.000	-2.958	0.930	979.4	1451.2	503.5	82.0	0.917	0.988	0.999	0.022	0.987	-0.000	0.034	1.99	-0.02

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS TC-532 691 2.994 5.00 21 908 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AIL	SAL
3	9.834	0.000	-2.208	0.920	970.7	1448.8	496.7	81.7	0.898	0.979	0.999	0.040	0.978	-0.001	0.047	2.74	-0.07
4	10.167	0.000	-2.208	0.926	976.0	1450.3	500.2	82.0	0.894	0.970	0.999	0.053	0.969	-0.001	0.045	2.64	-0.06
5	10.500	0.000	-2.208	0.926	976.3	1449.2	500.1	81.8	0.885	0.961	0.998	0.073	0.961	-0.001	0.042	2.52	-0.08
6	10.833	0.000	-2.208	0.926	975.9	1448.5	499.7	81.8	0.878	0.955	0.999	0.089	0.954	-0.002	0.039	2.36	-0.09
7	11.166	0.000	-2.208	0.927	976.5	1449.2	500.2	81.8	0.873	0.950	0.999	0.099	0.949	-0.002	0.035	2.14	-0.09
8	11.499	0.000	-2.208	0.927	977.0	1448.5	500.3	81.8	0.870	0.946	0.999	0.105	0.946	-0.002	0.032	1.93	-0.11
9	11.832	0.000	-2.208	0.928	977.9	1450.1	501.3	82.0	0.869	0.945	0.999	0.107	0.945	-0.002	0.029	1.74	-0.10
10	12.165	0.000	-2.208	0.928	977.9	1449.9	501.2	81.9	0.871	0.947	0.999	0.104	0.947	-0.002	0.026	1.56	-0.09
11	12.498	0.000	-2.208	0.925	975.4	1449.4	499.6	82.0	0.872	0.950	0.999	0.098	0.950	-0.002	0.024	1.34	-0.09
12	12.831	0.000	-2.208	0.926	975.8	1449.7	500.0	81.9	0.876	0.954	0.999	0.090	0.953	-0.001	0.022	1.33	-0.08
13	13.164	0.000	-2.208	0.927	976.4	1449.6	500.3	81.8	0.881	0.957	0.999	0.083	0.957	-0.001	0.021	1.24	-0.06
14	13.497	0.000	-2.208	0.927	977.3	1450.2	500.9	82.0	0.888	0.963	0.999	0.072	0.963	-0.001	0.020	1.17	-0.05
15	13.830	0.000	-2.208	0.925	974.6	1449.3	499.2	81.7	0.891	0.969	1.000	0.082	0.969	-0.001	0.018	1.08	-0.06
16	14.163	0.000	-2.208	0.926	976.1	1448.3	499.7	81.8	0.897	0.973	0.999	0.052	0.973	-0.001	0.018	1.05	-0.04
17	14.496	0.003	-2.208	0.927	977.0	1448.9	500.4	81.8	0.904	0.978	0.999	0.043	0.978	-0.001	0.018	1.09	-0.06
18	14.829	0.000	-2.208	0.929	978.8	1450.1	501.9	81.8	0.911	0.984	0.999	0.031	0.983	-0.001	0.019	1.09	-0.04
19	15.162	0.000	-2.208	0.928	977.7	1448.7	500.8	81.7	0.919	0.992	0.999	0.015	0.992	-0.000	0.020	1.14	-0.01
20	15.495	0.000	-2.208	0.924	973.7	1448.2	498.3	81.7	0.919	0.996	0.999	0.007	0.996	-0.001	0.022	1.26	-0.04
21	15.828	0.000	-2.208	0.925	974.9	1448.5	499.1	81.7	0.929	1.003	1.000	-0.007	1.003	-0.001	0.024	1.35	-0.04
22	16.161	0.000	-2.208	0.927	976.4	1447.9	500.1	81.7	0.935	1.007	0.999	0.016	1.007	-0.000	0.025	1.41	-0.01
23	16.494	0.000	-2.208	0.929	978.6	1449.1	501.4	81.8	0.943	1.012	0.999	0.007	1.012	-0.000	0.026	1.49	-0.02
24	16.827	0.000	-2.208	0.927	976.7	1450.0	500.7	81.7	0.941	1.013	0.999	0.007	1.012	-0.000	0.028	1.56	-0.00
25	17.160	0.000	-2.208	0.926	976.2	1450.4	500.4	82.0	0.936	1.009	0.999	0.020	1.009	0.000	0.029	1.63	0.01
26	17.493	0.000	-2.208	0.928	977.2	1449.1	500.6	81.8	0.930	1.002	0.999	0.007	1.002	0.000	0.029	1.69	0.01
27	17.826	0.000	-2.208	0.927	976.4	1447.7	499.7	81.8	0.923	0.997	0.999	0.005	0.997	-0.000	0.029	1.67	-0.01
28	18.159	0.000	-2.208	0.924	974.4	1449.0	499.0	81.8	0.916	0.993	0.999	0.014	0.992	0.000	0.028	1.63	0.01
29	18.492	0.000	-2.208	0.927	977.1	1450.7	501.0	81.9	0.913	0.987	0.998	0.024	0.986	0.000	0.027	1.56	0.01
30	18.825	0.000	-2.208	0.929	978.5	1448.8	501.3	81.8	0.913	0.985	0.999	0.028	0.985	0.000	0.026	1.51	0.02
32	19.158	0.000	-2.208	0.928	977.4	1449.1	500.7	81.8	0.912	0.986	0.999	0.027	0.985	0.001	0.025	1.44	0.03
33	19.491	0.000	-2.208	0.926	975.5	1449.1	499.6	81.8	0.911	0.986	0.999	0.026	0.986	-0.000	0.024	1.41	-0.01

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALFA

TC-532 693 2.999 5.00 21

SURVEY ALFAS
910 5.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	0.925	974.5	1449.0	499.0	81.8	0.903	0.980	0.999	0.039	0.978	-0.022	0.059	3.44	-1.28
2	11.167	-0.750	-2.208	0.927	976.8	1450.0	500.5	81.9	0.872	0.949	0.999	0.100	0.948	-0.019	0.043	2.59	-1.17
3	12.500	-0.750	-2.208	0.929	978.9	1450.2	502.0	81.9	0.873	0.948	0.998	0.101	0.947	-0.014	0.027	1.83	-0.85
4	13.833	-0.750	-2.208	0.928	977.4	1448.7	500.5	81.9	0.892	0.967	0.999	0.065	0.966	-0.011	0.022	1.39	-0.63
5	15.166	-0.750	-2.208	0.926	975.6	1449.8	499.8	81.9	0.914	0.989	0.999	0.020	0.989	-0.010	0.023	1.31	-0.59
6	16.499	-0.750	-2.208	0.925	974.9	1449.7	499.4	81.9	0.937	1.011	0.999	-0.025	1.011	-0.013	0.030	1.72	-0.73
7	17.832	-0.750	-2.208	0.928	977.7	1449.0	500.8	81.9	0.924	0.986	0.999	0.006	0.996	-0.014	0.033	1.88	-0.79
10	19.165	-0.750	-2.208	0.928	977.7	1450.8	501.4	81.9	0.912	0.985	0.999	0.029	0.984	-0.011	0.028	1.83	-0.66
12	20.498	-0.750	-2.208	0.928	977.5	1450.3	501.2	81.9	0.919	0.992	0.999	0.015	0.991	-0.010	0.026	1.49	-0.60

DATE 9-MAR-78 PROJECT NO P41C-NOC

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 694 2.998 5.00 21 911 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SSL
1	10.500	-2.750	-1.230	0.925	974.6	1448.2	498.8	81.7	0.881	0.960	0.998	0.078	0.954	-0.031	0.033	5.57	-1.89
2	11.833	-2.750	-1.230	0.926	975.9	1447.5	499.4	81.7	0.836	0.915	0.999	0.167	0.912	-0.056	0.048	3.04	-3.50
3	13.166	-2.750	-1.230	0.927	976.6	1449.2	500.4	81.6	0.859	0.936	0.999	0.124	0.935	-0.040	0.014	0.84	-2.42
4	14.499	-2.750	-1.230	0.927	976.7	1448.3	500.1	81.7	0.897	0.972	0.999	0.054	0.971	-0.025	0.013	0.74	-1.49
5	15.832	-2.750	-1.230	0.928	977.8	1447.5	500.5	81.7	0.939	1.010	0.999	-0.021	1.010	-0.020	0.024	1.38	-1.15
7	17.165	-2.750	-1.230	0.926	976.1	1447.3	499.4	81.8	0.963	1.034	0.999	-0.069	1.032	-0.027	0.053	2.92	-1.51
9	18.498	-2.750	-1.230	0.923	977.4	1449.9	500.9	81.9	0.897	0.971	0.999	0.056	0.970	-0.026	0.035	2.09	-1.56
12	19.831	-2.750	-1.230	0.927	976.9	1450.4	500.9	81.8	0.910	0.984	0.999	0.031	0.983	-0.025	0.026	1.54	-1.46

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6

ALFA CONFIG

TC-532 699 2.999 0.00 21

SURVEY ALFAS
901 0.02

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ALD	SWL
7	10.500	4.250	-1.230	0.950	997.3	1436.9	507.7	82.1	0.941	0.992	1.000	0.015	0.992	0.005	-0.006	-0.35	0.28
8	11.166	4.250	-1.230	0.950	997.7	1436.0	507.6	82.1	0.935	0.986	1.000	0.028	0.986	0.009	-0.009	-0.51	0.32
9	11.832	4.250	-1.230	0.951	998.9	1436.2	508.3	82.1	0.933	0.983	1.001	0.034	0.983	0.012	-0.013	-0.78	0.72
10	12.498	4.250	-1.230	0.953	999.8	1435.8	508.7	82.0	0.934	0.984	1.000	0.033	0.983	0.014	-0.021	-1.25	0.82
11	13.164	4.250	-1.230	0.951	998.3	1435.9	508.0	82.0	0.940	0.991	1.000	0.019	0.990	0.010	-0.029	-1.67	0.58
12	13.830	4.250	-1.230	0.954	1000.9	1437.3	509.9	82.0	0.964	1.009	0.999	-0.019	1.009	0.001	-0.031	-1.77	0.33
13	14.496	4.250	-1.230	0.952	999.2	1437.4	509.0	82.0	0.987	1.031	1.000	-0.062	1.031	-0.008	-0.024	-1.34	-0.43
15	15.162	4.250	-1.230	0.949	997.1	1436.8	507.6	82.0	1.011	1.054	1.000	-0.108	1.054	-0.013	-0.016	-0.85	-0.70
16	15.828	4.250	-1.230	0.948	996.0	1436.1	506.7	82.0	1.029	1.071	1.000	-0.142	1.071	-0.015	-0.004	-0.22	-0.79
18	16.494	4.250	-1.230	0.947	994.8	1436.3	506.1	82.0	1.043	1.084	1.000	-0.168	1.084	-0.017	0.012	0.64	-0.90
19	17.160	4.250	-1.230	0.952	999.1	1437.4	508.9	82.0	1.120	1.144	0.999	-0.228	1.143	-0.020	0.042	2.11	-1.02
21	17.826	4.250	-1.230	0.954	1001.1	1435.9	509.5	82.0	0.918	0.968	0.997	0.060	0.967	-0.008	0.034	1.99	-0.56
22	18.492	4.250	-1.230	0.954	1000.7	1438.3	510.1	82.0	0.903	0.955	0.996	0.085	0.954	-0.008	0.022	1.30	-0.49
23	19.158	4.250	-1.230	0.952	998.6	1437.4	509.2	82.0	0.911	0.963	0.997	0.070	0.963	-0.008	0.013	0.76	-0.45
24	19.824	4.250	-1.230	0.953	1000.2	1435.8	509.0	81.8	0.924	0.974	0.998	0.048	0.974	-0.007	0.010	0.57	-0.42

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.
AEDC DIVISION
A SVERDRUP CORPORATION COMPANY
PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS
TC-532 702 2.999 0.00 21 904 0.02

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	0.951	997.9	1435.0	507.6	81.7	0.945	0.995	1.001	0.011	0.995	0.003	-0.008	-0.46	0.15
2	10.933	3.500	-2.730	0.952	998.8	1435.1	508.1	81.7	0.945	0.994	1.000	0.012	0.994	0.003	-0.010	-0.55	0.20
3	11.166	3.500	-2.730	0.952	999.3	1435.3	508.4	81.7	0.943	0.992	1.000	0.017	0.991	0.004	-0.011	-0.63	0.22
4	11.499	3.500	-2.730	0.953	999.8	1434.8	508.5	81.7	0.944	0.992	1.000	0.017	0.992	0.004	-0.013	-0.75	0.25
5	11.832	3.500	-2.730	0.954	1000.8	1436.0	509.5	81.7	0.946	0.993	1.000	0.015	0.993	0.004	-0.015	-0.84	0.24
6	12.165	3.500	-2.730	0.953	1000.3	1434.7	508.8	81.7	0.947	0.995	1.000	0.011	0.995	0.004	-0.016	-0.93	0.23
7	12.498	3.500	-2.730	0.951	998.1	1434.8	507.7	81.6	0.951	1.000	1.000	0.000	1.000	0.003	-0.017	-1.00	0.18
8	12.831	3.500	-2.730	0.952	998.6	1435.2	508.1	81.5	0.954	1.002	1.000	-0.004	1.002	0.003	-0.018	-1.01	0.14
9	13.164	3.500	-2.730	0.953	999.5	1435.2	508.5	81.7	0.962	1.008	1.000	-0.017	1.008	0.001	-0.018	-1.05	0.08
10	13.497	3.500	-2.730	0.953	1000.0	1435.0	508.7	81.7	0.968	1.013	1.001	-0.025	1.013	0.000	-0.018	-1.04	0.00
11	13.830	3.500	-2.730	0.954	1000.8	1434.3	508.9	81.7	0.976	1.019	1.001	-0.037	1.019	-0.001	-0.017	-0.96	-0.06
12	14.163	3.500	-2.730	0.950	997.6	1436.1	507.8	81.7	0.980	1.026	1.000	-0.052	1.026	-0.002	-0.016	-0.88	-0.12
13	14.496	3.500	-2.730	0.952	998.7	1435.8	508.3	81.7	0.987	1.032	1.000	-0.063	1.031	-0.004	-0.014	-0.78	-0.20
14	14.829	3.500	-2.730	0.953	1000.3	1435.6	509.1	81.7	0.996	1.037	1.000	-0.075	1.037	-0.005	-0.012	-0.65	-0.28
15	15.162	3.500	-2.730	0.955	1001.3	1434.7	509.3	81.7	1.005	1.044	1.000	-0.088	1.044	-0.006	-0.009	-0.51	-0.31
16	15.495	3.500	-2.730	0.948	995.3	1435.1	506.2	81.7	1.009	1.054	1.000	-0.109	1.054	-0.007	-0.006	-0.32	-0.36
17	15.828	3.500	-2.730	0.949	995.7	1434.9	506.4	81.5	1.018	1.061	1.000	-0.121	1.061	-0.007	-0.007	-0.11	-0.37
18	16.161	3.500	-2.730	0.950	996.9	1433.9	507.7	81.4	1.026	1.067	1.000	-0.133	1.067	-0.007	0.005	0.24	-0.36
19	16.494	3.500	-2.730	0.952	999.1	1434.6	508.2	81.5	1.043	1.079	1.000	-0.158	1.079	-0.008	0.010	0.55	-0.45
20	16.827	3.500	-2.730	0.945	993.0	1435.3	504.9	81.7	1.048	1.090	1.000	-0.180	1.090	-0.008	0.017	0.92	-0.43
21	17.160	3.500	-2.730	0.947	994.4	1435.1	505.7	81.6	1.047	1.087	1.000	-0.175	1.087	-0.007	0.024	1.27	-0.35
22	17.493	3.500	-2.730	0.949	996.4	1435.2	506.8	81.6	1.009	1.053	1.000	-0.106	1.052	-0.004	0.026	1.40	-0.24
23	17.826	3.500	-2.730	0.952	998.6	1435.4	508.1	81.6	0.960	1.007	0.999	-0.016	1.007	-0.004	0.024	1.35	-0.22
24	18.159	3.500	-2.730	0.953	1000.1	1434.9	508.8	81.5	0.939	0.987	1.000	0.025	0.987	-0.004	0.020	1.17	-0.12
25	18.492	3.500	-2.730	0.948	995.9	1433.8	506.0	81.7	0.931	0.985	1.000	0.030	0.985	-0.004	0.016	0.93	-0.23
26	18.825	3.500	-2.730	0.950	997.0	1434.4	506.9	81.6	0.928	0.980	1.000	0.040	0.980	-0.004	0.013	0.75	-0.24
27	19.158	3.500	-2.730	0.953	999.3	1435.1	508.5	81.4	0.931	0.981	1.000	0.039	0.981	-0.004	0.011	0.63	-0.25
28	19.491	3.500	-2.730	0.952	998.6	1434.2	507.8	81.4	0.932	0.982	1.000	0.034	0.982	-0.004	0.009	0.50	-0.23

DATE 9-MAR-78 PROJECT NO P41C-WOC

ARO, INC.

AEDC DIVISION

A SYNERGIC CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 700 2.997 0.00 21 902 0.02AEDC PROPULSION WIND TUNNEL
TRANSONIC 41DATE
2-22-78

POINT	X	Y	Z	M	WM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SVL
1	10.500	3.500	-1.980	0.948	995.6	1435.7	506.4	81.8	0.940	0.993	1.001	0.016	0.993	0.003	-0.008	-0.47	0.20
2	10.833	3.500	-1.980	0.949	996.2	1434.4	506.4	81.8	0.936	0.989	1.000	0.023	0.989	0.005	-0.010	-0.59	0.27
3	11.166	3.500	-1.980	0.949	996.5	1435.6	506.9	81.8	0.935	0.987	1.000	0.026	0.987	0.006	-0.012	-0.72	0.35
4	11.499	3.500	-1.980	0.951	997.8	1436.0	507.8	81.8	0.935	0.986	1.000	0.028	0.986	0.007	-0.015	-0.86	0.40
5	11.832	3.500	-1.980	0.951	998.3	1436.5	508.2	81.8	0.937	0.988	1.000	0.025	0.987	0.007	-0.018	-1.03	0.39
6	12.165	3.500	-1.980	0.952	998.8	1436.5	508.5	81.8	0.941	0.991	1.000	0.019	0.990	0.006	-0.020	-1.17	0.35
7	12.498	3.500	-1.980	0.953	999.8	1436.9	509.1	82.0	0.946	0.994	1.000	0.012	0.994	0.005	-0.022	-1.28	0.29
8	12.831	3.500	-1.980	0.953	1000.1	1436.6	509.2	81.9	0.952	0.999	1.000	0.003	0.998	0.004	-0.023	-1.34	0.21
9	13.164	3.500	-1.980	0.951	998.4	1436.3	508.1	82.0	0.957	1.006	1.000	-0.010	1.005	0.001	-0.024	-1.36	0.09
10	13.497	3.500	-1.980	0.952	999.1	1436.5	508.6	81.9	0.966	1.013	1.000	-0.025	1.012	-0.001	-0.023	-1.31	-0.05
11	13.830	3.500	-1.980	0.953	1000.2	1437.5	509.7	81.8	0.976	1.020	1.000	-0.040	1.020	-0.003	-0.021	-1.21	-0.14
12	14.163	3.500	-1.980	0.952	999.3	1436.7	508.8	81.9	0.983	1.027	1.000	-0.055	1.027	-0.005	-0.020	-1.10	-0.26
13	14.496	3.500	-1.980	0.952	998.9	1436.7	508.5	82.0	0.990	1.034	1.000	-0.067	1.033	-0.006	-0.016	-0.91	-0.34
14	14.829	3.500	-1.980	0.953	1000.0	1436.3	509.2	81.8	1.001	1.042	1.000	-0.084	1.042	-0.008	-0.014	-0.75	-0.42
15	15.162	3.500	-1.980	0.952	999.2	1436.6	508.7	82.0	1.010	1.051	1.001	-0.101	1.051	-0.008	-0.010	-0.55	-0.44
16	15.495	3.500	-1.980	0.950	997.9	1436.8	508.1	82.0	1.017	1.058	1.001	-0.116	1.058	-0.009	-0.006	-0.31	-0.48
17	15.828	3.500	-1.980	0.952	998.9	1436.0	508.3	82.0	1.026	1.065	1.001	-0.128	1.065	-0.009	-0.000	-0.02	-0.50
18	16.161	3.500	-1.980	0.954	1001.4	1437.1	510.1	82.0	1.032	1.068	1.000	-0.137	1.068	-0.009	0.006	0.32	-0.50
19	16.494	3.500	-1.980	0.951	998.6	1435.9	508.1	82.0	1.037	1.083	1.000	-0.166	1.083	-0.010	0.014	0.76	-0.55
20	16.827	3.500	-1.980	0.950	997.5	1436.9	507.9	81.9	1.049	1.103	1.000	-0.206	1.103	-0.012	0.034	1.24	-0.60
21	17.160	3.500	-1.980	0.951	998.6	1435.4	507.9	82.0	1.062	1.113	1.000	-0.226	1.113	-0.010	0.033	1.71	-0.54
22	17.493	3.500	-1.980	0.953	1000.0	1436.3	509.1	81.9	1.039	1.075	1.000	-0.151	1.075	-0.004	0.034	1.80	-0.20
23	17.826	3.500	-1.980	0.952	999.2	1437.5	509.1	81.9	0.941	0.991	0.999	0.018	0.990	-0.003	0.028	1.84	-0.20
24	18.159	3.500	-1.980	0.954	1001.2	1437.3	510.0	82.0	0.924	0.974	0.999	0.051	0.973	-0.004	0.034	1.39	-0.21
25	18.492	3.500	-1.980	0.950	997.4	1434.8	507.2	81.7	0.919	0.972	1.000	0.054	0.972	-0.004	0.019	1.10	-0.26
26	18.825	3.500	-1.980	0.953	995.5	1436.1	508.9	81.7	0.920	0.971	0.999	0.056	0.971	-0.004	0.015	0.89	-0.25
27	19.158	3.500	-1.980	0.950	997.1	1434.9	507.1	81.7	0.921	0.974	1.000	0.051	0.974	-0.004	0.012	0.72	-0.25
28	19.491	3.500	-1.980	0.952	999.4	1436.8	509.0	81.7	0.926	0.976	0.999	0.046	0.976	-0.004	0.010	0.57	-0.25

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARKLUD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-S32 701 3.000 0.00 21 SURVEY ALFAS 903 0.02

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	WL	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.950	997.1	1436.2	507.5	81.8	0.937	0.988	1.000	0.023	0.988	0.006	-0.008	0.46	0.32
2	10.833	3.500	-1.230	0.950	997.4	1435.4	507.4	81.7	0.932	0.984	1.001	0.033	0.984	0.008	-0.010	-0.59	0.47
3	11.166	3.500	-1.230	0.951	998.1	1435.1	507.6	81.8	0.930	0.981	1.000	0.038	0.981	0.010	-0.013	-0.74	0.61
4	11.499	3.500	-1.230	0.951	998.8	1434.7	507.8	81.9	0.927	0.978	1.000	0.045	0.978	0.012	-0.017	-0.97	0.70
5	11.832	3.500	-1.230	0.953	999.5	1435.0	508.5	81.7	0.928	0.978	1.000	0.044	0.977	0.013	-0.021	-1.21	0.75
6	12.165	3.500	-1.230	0.953	1000.2	1435.2	508.9	81.7	0.931	0.980	1.000	0.041	0.979	0.012	-0.026	-1.53	0.73
8	12.498	3.500	-1.230	0.953	999.9	1435.0	508.7	81.7	0.936	0.985	1.000	0.030	0.984	0.010	-0.031	-1.80	0.59
9	12.831	3.500	-1.230	0.949	995.9	1434.4	508.2	81.7	0.941	0.993	1.000	0.013	0.993	0.006	-0.033	-1.91	0.32
10	13.164	3.500	-1.230	0.948	995.6	1434.0	505.9	81.7	0.949	1.001	1.001	0.000	1.000	0.002	-0.033	-1.91	0.10
11	13.497	3.500	-1.230	0.950	996.9	1435.3	507.1	81.8	0.960	1.009	1.000	-0.018	1.009	-0.003	-0.031	-1.78	-0.17
12	13.830	3.500	-1.230	0.951	998.1	1434.2	507.3	81.9	0.973	1.020	1.000	-0.039	1.019	-0.006	-0.028	-1.55	-0.32
13	14.163	3.500	-1.230	0.951	998.4	1433.7	507.4	81.7	0.985	1.030	1.001	-0.058	1.029	-0.008	-0.024	-1.32	-0.44
14	14.496	3.500	-1.230	0.953	1000.1	1436.0	509.0	81.9	0.996	1.038	1.000	-0.075	1.038	-0.009	-0.020	-1.10	-0.52
15	14.829	3.500	-1.230	0.953	998.9	1435.6	508.9	81.8	1.007	1.048	1.000	-0.094	1.047	-0.011	-0.016	-0.87	-0.61
16	15.162	3.500	-1.230	0.950	997.3	1436.4	507.7	81.7	1.016	1.058	1.000	-0.116	1.057	-0.012	-0.011	-0.58	-0.63
17	15.495	3.500	-1.230	0.952	998.9	1436.2	509.2	81.8	1.028	1.067	0.999	-0.135	1.067	-0.012	-0.006	-0.32	-0.62
19	15.828	3.500	-1.230	0.953	999.8	1435.6	508.8	81.7	1.032	1.069	1.000	-0.138	1.069	-0.012	0.001	0.05	-0.66
19	16.161	3.500	-1.230	0.952	999.0	1435.3	508.3	81.7	1.037	1.074	1.000	-0.149	1.074	-0.012	0.007	0.35	-0.65
20	16.494	3.500	-1.230	0.951	998.4	1435.2	507.9	81.8	1.050	1.086	1.000	-0.171	1.086	-0.013	0.016	0.85	-0.66
21	16.827	3.500	-1.230	0.954	1000.5	1435.4	509.2	81.7	1.096	1.122	1.000	-0.244	1.121	-0.016	0.030	1.56	-0.79
22	17.160	3.500	-1.230	0.953	999.6	1434.8	508.5	81.6	1.116	1.139	0.999	-0.280	1.138	-0.013	0.043	2.14	-0.65
23	17.493	3.500	-1.230	0.952	999.1	1434.8	508.2	81.7	0.972	1.018	0.998	-0.038	1.017	-0.002	0.038	2.14	-0.10
24	17.826	3.500	-1.230	0.954	1000.5	1436.4	509.4	81.8	0.927	0.976	0.998	0.044	0.976	-0.002	0.034	1.98	-0.12
25	18.159	3.500	-1.230	0.952	998.8	1435.1	508.0	81.8	0.909	0.962	0.998	0.073	0.962	-0.003	0.027	1.62	-0.19
26	18.492	3.500	-1.230	0.952	998.6	1435.5	508.2	81.6	0.905	0.958	0.998	0.081	0.958	-0.004	0.022	1.31	-0.25
27	18.825	3.500	-1.230	0.950	997.4	1436.0	507.7	81.6	0.906	0.960	0.998	0.075	0.960	-0.004	0.017	1.02	-0.26
28	19.158	3.500	-1.230	0.952	998.9	1434.8	508.2	81.5	0.912	0.964	0.998	0.068	0.964	-0.005	0.013	0.79	-0.27
29	19.491	3.500	-1.230	0.954	1000.5	1434.9	509.0	81.7	0.918	0.966	0.998	0.060	0.968	-0.005	0.012	0.68	-0.27

DATE 9-MAR-78 PROJECT NO P41C-N0C

AEDC, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 703 3.001 0.00 21 905 0.02

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SML
1	10.500	2.750	-1.230	0.950	996.9	1435.4	507.3	81.4	0.932	0.984	1.000	0.031	0.984	0.006	-0.010	-0.010	0.32
2	11.166	2.750	-1.230	0.951	998.3	1434.8	507.8	81.5	0.923	0.974	1.000	0.052	0.974	0.009	-0.019	-1.14	0.56
3	11.832	2.750	-1.230	0.952	998.8	1434.1	507.9	81.4	0.927	0.978	1.001	0.045	0.977	0.008	-0.030	-1.77	0.44
4	12.498	2.750	-1.230	0.954	1000.2	1433.9	508.6	81.4	0.943	0.991	1.001	0.019	0.990	0.001	-0.034	-1.97	0.07
6	13.164	2.750	-1.230	0.950	996.6	1436.0	507.3	81.5	0.961	1.011	1.000	-0.022	1.010	-0.006	-0.031	-1.74	-0.35
7	13.830	2.750	-1.230	0.951	997.9	1435.6	507.9	81.4	0.982	1.028	0.999	-0.056	1.027	-0.009	-0.024	-1.35	-0.43
8	14.496	2.750	-1.230	0.952	999.3	1434.7	508.3	81.5	1.000	1.042	1.000	-0.084	1.042	-0.010	-0.016	-0.59	-0.53
9	15.162	2.750	-1.230	0.952	998.4	1435.3	508.1	81.4	1.021	1.061	0.999	-0.123	1.061	-0.010	-0.007	-0.40	-0.52
10	15.828	2.750	-1.230	0.954	1000.3	1434.3	508.8	81.4	1.034	1.070	1.000	-0.141	1.070	-0.009	0.003	0.14	-0.47
11	16.494	2.750	-1.230	0.954	1000.3	1434.2	508.7	81.5	1.052	1.085	1.000	-0.171	1.085	-0.007	0.019	0.99	-0.38
12	17.160	2.750	-1.230	0.954	1000.9	1435.3	509.4	81.6	1.078	1.107	0.999	-0.214	1.106	0.001	0.037	1.93	0.06
13	17.826	2.750	-1.230	0.954	1000.9	1434.9	509.2	81.7	0.932	0.981	0.998	0.036	0.960	0.003	0.032	1.67	0.16
15	19.492	2.750	-1.230	0.950	996.6	1432.7	505.2	81.4	0.908	0.963	1.000	0.074	0.963	-0.001	0.021	1.22	-0.04
16	19.158	2.750	-1.230	0.954	1000.6	1435.3	509.2	81.6	0.914	0.965	0.998	0.067	0.964	-0.002	0.014	0.82	-0.14
17	19.824	2.750	-1.230	0.950	996.9	1435.0	507.1	81.4	0.925	0.978	0.999	0.042	0.978	-0.002	0.009	0.54	-0.14

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 704 2.999 0.00 21 SURVEY ALFA 906 0.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.750	-2.208	0.949	996.4	1435.2	506.9	81.5	0.951	1.001	1.000	-0.003	1.001	-0.002	-0.006	-0.37	-0.13
2	10.500	0.750	-2.208	0.954	1001.0	1436.4	509.8	81.6	0.942	0.989	0.999	0.021	0.989	-0.004	-0.009	-0.50	-0.21
3	11.166	0.750	-2.208	0.952	998.8	1433.6	507.6	81.6	0.938	0.988	1.000	0.024	0.988	-0.005	-0.012	-0.57	-0.30
4	11.832	0.750	-2.208	0.952	998.8	1435.0	508.1	81.6	0.947	0.996	0.999	0.008	0.996	-0.006	-0.013	-0.75	-0.35
5	12.498	0.750	-2.208	0.953	999.8	1436.1	509.1	81.6	0.959	1.006	0.999	-0.013	1.006	-0.007	-0.013	-0.75	-0.37
6	13.164	0.750	-2.208	0.953	1000.0	1433.9	508.4	81.5	0.973	1.017	1.000	-0.034	1.017	-0.007	-0.012	-0.65	-0.37
7	13.830	0.750	-2.208	0.952	998.9	1435.6	508.4	81.5	0.989	1.032	0.999	-0.066	1.032	-0.006	-0.010	-0.56	-0.35
8	14.496	0.750	-2.208	0.951	997.7	1434.2	507.2	81.6	1.001	1.044	1.000	-0.088	1.044	-0.005	-0.007	-0.36	-0.29
9	15.162	0.750	-2.208	0.950	997.2	1433.8	506.8	81.6	1.018	1.060	1.000	-0.120	1.060	-0.004	-0.003	-0.16	-0.20
10	15.828	0.750	-2.208	0.950	997.4	1434.3	507.1	81.6	1.035	1.074	1.000	-0.148	1.074	-0.002	-0.004	0.19	-0.11
11	16.494	0.750	-2.208	0.953	999.9	1435.3	508.8	81.7	1.049	1.083	1.000	-0.167	1.083	0.000	0.009	0.48	0.01
12	17.160	0.750	-2.208	0.953	1000.3	1435.3	509.0	81.7	1.054	1.087	0.999	-0.175	1.087	0.005	0.015	0.81	0.25
13	17.826	0.750	-2.208	0.950	996.8	1433.9	506.6	81.7	0.969	1.017	1.000	-0.034	1.017	0.004	0.016	0.91	0.24
14	18.492	0.750	-2.208	0.954	1000.4	1434.3	508.7	81.7	0.941	0.989	1.000	0.022	0.989	0.002	0.013	0.73	0.13
15	19.158	0.750	-2.208	0.950	997.5	1435.4	507.5	81.7	0.933	0.985	1.000	0.030	0.985	0.001	0.009	0.51	0.03
16	19.824	0.750	-2.208	0.952	998.9	1434.9	508.1	81.7	0.938	0.988	1.000	0.024	0.988	-0.000	0.006	0.37	-0.00

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 707 2.998 0.00 21

SURVEY ALFAS 909 0.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SAL
1	9.634	0.000	-3.708	0.951	999.0	1433.4	507.2	81.4	0.956	1.004	1.001	-0.007	1.004	-0.002	-0.006	-0.35	-0.11
2	10.167	0.000	-3.708	0.952	998.9	1434.3	508.0	81.4	0.952	1.000	1.000	0.002	1.000	-0.002	-0.007	-0.40	-0.12
3	10.500	0.000	-3.708	0.953	999.1	1434.2	508.1	81.3	0.949	0.997	1.000	0.006	0.997	-0.002	-0.008	-0.44	-0.13
4	10.833	0.000	-3.708	0.953	1000.1	1434.6	508.7	81.5	0.949	0.995	1.000	0.008	0.996	-0.002	-0.009	-0.50	-0.14
5	11.166	0.000	-3.708	0.950	997.2	1434.0	507.0	81.4	0.946	0.996	1.001	0.009	0.996	-0.002	-0.010	-0.56	-0.14
6	11.499	0.000	-3.708	0.952	999.0	1436.2	508.8	81.4	0.949	0.997	0.999	0.005	0.997	-0.002	-0.010	-0.60	-0.14
7	11.832	0.000	-3.708	0.952	995.6	1433.1	507.5	81.2	0.949	0.997	1.000	0.005	0.997	-0.002	-0.011	-0.64	-0.14
8	12.165	0.000	-3.708	0.952	998.8	1432.6	507.5	81.2	0.952	1.000	1.000	-0.000	1.000	-0.003	-0.012	-0.68	-0.15
9	12.498	0.000	-3.708	0.954	1000.4	1434.2	508.9	81.2	0.959	1.003	1.000	-0.010	1.005	-0.002	-0.012	-0.68	-0.11
10	12.831	0.000	-3.708	0.954	1000.5	1433.0	508.6	81.2	0.963	1.008	1.000	-0.016	1.008	-0.002	-0.012	-0.69	-0.13
11	13.164	0.000	-3.708	0.951	998.0	1433.1	507.2	81.1	0.966	1.013	1.000	-0.026	1.013	-0.002	-0.012	-0.65	-0.13
12	13.497	0.000	-3.708	0.953	999.0	1433.6	508.0	81.1	0.973	1.018	1.000	-0.035	1.018	-0.002	-0.011	-0.61	-0.13
13	13.830	0.000	-3.708	0.954	999.9	1433.9	508.5	81.2	0.978	1.022	1.000	-0.043	1.021	-0.002	-0.010	-0.58	-0.12
14	14.163	0.000	-3.708	0.952	998.6	1435.7	508.3	81.4	0.980	1.025	1.000	-0.051	1.025	-0.002	-0.009	-0.51	-0.10
15	14.496	0.000	-3.708	0.952	998.7	1432.7	507.4	81.3	0.985	1.029	1.000	-0.058	1.029	-0.002	-0.008	-0.43	-0.10
16	14.829	0.000	-3.708	0.950	997.2	1434.3	507.1	81.4	0.990	1.035	1.000	-0.070	1.035	-0.002	-0.006	-0.33	-0.11
17	15.162	0.000	-3.708	0.952	999.0	1435.2	508.4	81.4	0.997	1.040	1.000	-0.080	1.040	-0.001	-0.004	-0.25	-0.08
18	15.495	0.000	-3.708	0.953	1000.1	1434.4	508.7	81.5	1.008	1.048	1.000	-0.095	1.048	-0.001	-0.003	-0.16	-0.06
19	15.828	0.000	-3.708	0.952	998.6	1434.6	507.9	81.6	1.011	1.052	1.000	-0.104	1.052	-0.001	-0.000	-0.01	-0.06
20	16.161	0.000	-3.708	0.953	999.9	1434.9	508.8	81.4	1.026	1.063	1.000	-0.126	1.063	-0.001	0.000	0.14	-0.06
21	16.494	0.000	-3.708	0.951	997.8	1435.1	507.6	81.5	1.030	1.069	1.000	-0.138	1.069	-0.001	0.006	0.31	-0.07
22	16.827	0.000	-3.708	0.954	1000.8	1436.3	509.7	81.5	1.036	1.071	0.999	-0.144	1.071	-0.002	0.010	0.51	-0.09
23	17.160	0.000	-3.708	0.952	999.0	1435.1	508.3	81.5	1.033	1.070	1.000	-0.141	1.070	-0.001	0.013	0.71	-0.08
24	17.493	0.000	-3.708	0.954	1000.7	1435.1	509.2	81.5	1.005	1.043	1.000	-0.089	1.044	-0.001	0.014	0.76	-0.07
25	17.826	0.000	-3.708	0.954	1000.8	1435.5	509.5	81.4	0.976	1.019	0.999	-0.039	1.019	-0.001	0.014	0.81	-0.05
26	18.159	0.000	-3.708	0.952	998.9	1436.0	508.5	81.7	0.959	1.007	1.000	-0.014	1.006	-0.001	0.012	0.67	-0.05
27	18.492	0.000	-3.708	0.953	1000.0	1435.1	508.8	81.6	0.950	0.998	0.999	0.004	0.998	-0.001	0.011	0.61	-0.05
28	18.825	0.000	-3.708	0.955	1001.4	1434.0	509.2	81.6	0.944	0.990	1.000	0.019	0.990	-0.001	0.009	0.54	-0.04
29	19.158	0.000	-3.708	0.954	1000.4	1435.5	509.2	81.6	0.943	0.991	1.000	0.019	0.990	-0.001	0.008	0.45	-0.04
30	19.491	0.000	-3.708	0.952	998.6	1434.8	508.0	81.5	0.941	0.990	0.999	0.019	0.990	-0.001	0.006	0.35	-0.04

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SYNERGUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-332 705 2.998 0.00 21 SURVEY ALFAS 907 0.02

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-2.958	0.947	994.7	1436.2	506.2	81.7	0.951	1.003	0.999	-0.008	1.003	-0.002	-0.006	-0.33	-0.11
2	10.167	0.000	-2.958	0.951	998.3	1435.7	508.1	81.5	0.950	0.999	1.000	0.003	0.999	-0.002	-0.007	-0.38	-0.12
3	10.500	0.000	-2.958	0.952	998.9	1435.0	508.2	81.4	0.944	0.993	1.000	0.014	0.993	-0.002	-0.008	-0.44	-0.13
4	10.833	0.000	-2.958	0.952	999.1	1434.3	508.1	81.5	0.943	0.991	1.000	0.018	0.991	-0.002	-0.009	-0.51	-0.13
5	11.166	0.000	-2.958	0.953	999.7	1434.9	508.6	81.6	0.944	0.992	1.000	0.015	0.992	-0.002	-0.010	-0.57	-0.12
6	11.499	0.000	-2.958	0.954	1000.9	1434.9	509.3	81.4	0.947	0.993	0.999	0.013	0.993	-0.002	-0.011	-0.62	-0.14
7	11.832	0.000	-2.958	0.954	1000.6	1433.9	508.8	81.4	0.948	0.995	1.000	0.011	0.995	-0.002	-0.011	-0.65	-0.14
9	12.165	0.000	-2.958	0.954	1001.0	1434.7	509.3	81.5	0.953	0.999	1.000	0.001	0.999	-0.002	-0.012	-0.68	-0.12
10	12.498	0.000	-2.958	0.949	996.2	1436.0	507.0	81.6	0.954	1.005	0.999	-0.011	1.005	-0.002	-0.012	-0.67	-0.11
11	12.831	0.000	-2.958	0.949	996.0	1434.6	506.5	81.4	0.958	1.008	1.000	-0.016	1.008	-0.002	-0.011	-0.63	-0.11
12	13.164	0.000	-2.958	0.950	995.7	1435.1	507.1	81.4	0.956	1.014	1.000	-0.029	1.014	-0.002	-0.011	-0.62	-0.11
13	13.497	0.000	-2.958	0.951	997.8	1434.0	507.2	81.5	0.973	1.019	1.000	-0.039	1.019	-0.002	-0.010	-0.56	-0.11
14	13.830	0.000	-2.958	0.953	999.7	1435.7	504.9	81.5	0.982	1.025	1.000	-0.051	1.025	-0.002	-0.009	-0.52	-0.11
15	14.163	0.000	-2.958	0.952	996.5	1435.3	506.1	81.5	0.985	1.029	1.000	-0.059	1.029	-0.001	-0.008	-0.46	-0.09
16	14.496	0.000	-2.958	0.952	998.7	1433.3	507.0	81.3	0.991	1.034	1.000	-0.069	1.034	-0.002	-0.007	-0.38	-0.09
17	14.829	0.000	-2.958	0.954	1000.4	1434.2	508.8	81.4	1.000	1.041	1.000	-0.081	1.041	-0.002	-0.005	-0.29	-0.09
19	15.162	0.000	-2.958	0.953	999.4	1435.7	508.8	81.5	1.006	1.046	1.000	-0.094	1.046	-0.001	-0.004	-0.22	-0.06
19	15.495	0.000	-2.958	0.953	999.8	1434.2	508.5	81.4	1.014	1.053	1.000	-0.107	1.053	-0.001	-0.002	-0.09	-0.05
20	15.828	0.000	-2.958	0.952	996.8	1435.7	508.4	81.5	1.025	1.064	0.999	-0.129	1.064	-0.000	-0.002	-0.04	-0.02
21	16.161	0.000	-2.958	0.953	999.9	1434.1	508.5	81.4	1.031	1.068	1.000	-0.136	1.068	-0.001	-0.004	-0.22	-0.04
22	16.494	0.000	-2.958	0.952	998.3	1435.1	508.0	81.4	1.038	1.075	0.999	-0.152	1.075	-0.001	-0.008	-0.40	-0.07
23	16.827	0.000	-2.958	0.952	998.8	1432.7	507.5	81.2	1.041	1.077	1.000	-0.154	1.077	-0.001	-0.011	-0.59	-0.06
25	17.160	0.000	-2.958	0.948	995.2	1432.6	505.4	81.2	1.026	1.068	1.000	-0.136	1.068	-0.001	-0.014	-0.75	-0.06
26	17.493	0.000	-2.958	0.951	997.3	1434.0	507.1	81.2	0.994	1.038	1.000	-0.077	1.038	-0.000	-0.015	-0.83	-0.02
27	17.826	0.000	-2.958	0.951	997.7	1434.2	507.4	81.3	0.971	1.018	1.000	-0.036	1.018	-0.000	-0.014	-0.78	-0.02
28	18.159	0.000	-2.958	0.952	998.5	1435.3	508.2	81.3	0.953	1.001	0.999	-0.003	1.001	-0.000	-0.012	-0.69	-0.02
29	18.492	0.000	-2.958	0.954	1000.4	1435.7	509.4	81.4	0.947	0.994	1.000	0.012	0.994	-0.000	-0.011	-0.61	-0.02
30	18.825	0.000	-2.958	0.952	998.9	1434.0	507.9	81.4	0.941	0.990	1.000	0.020	0.990	-0.000	-0.009	-0.54	-0.01
31	19.158	0.000	-2.958	0.953	999.5	1435.4	508.7	81.5	0.937	0.986	1.000	0.027	0.986	-0.000	-0.008	-0.45	-0.02
33	19.491	0.000	-2.958	0.947	994.3	1435.7	505.9	81.4	0.934	0.988	0.999	0.023	0.988	-0.000	-0.006	-0.36	-0.00

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SUPERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 706 2.996 0.00 21 908 0.02

DATE 2-27-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	RAL	SMI
1	9.834	0.000	-2.208	0.948	994.9	1433.8	508.6	81.4	0.949	1.001	1.000	-0.002	1.001	-0.002	-0.005	-0.28	-0.14
2	10.167	0.000	-2.208	0.948	995.6	1435.2	508.5	81.4	0.944	0.996	1.000	0.008	0.996	-0.003	-0.005	-0.33	-0.15
3	10.500	0.000	-2.208	0.948	995.3	1434.1	508.9	81.4	0.939	0.992	1.000	0.015	0.992	-0.003	-0.007	-0.38	-0.18
4	10.833	0.000	-2.208	0.949	996.4	1434.3	508.6	81.4	0.938	0.990	1.000	0.019	0.990	-0.003	-0.008	-0.45	-0.16
5	11.166	0.000	-2.208	0.950	997.0	1434.6	507.0	81.5	0.939	0.990	1.000	0.019	0.990	-0.003	-0.009	-0.52	-0.16
6	11.499	0.000	-2.208	0.950	997.5	1435.4	507.6	81.5	0.942	0.992	1.000	0.015	0.992	-0.003	-0.010	-0.56	-0.17
7	11.832	0.000	-2.208	0.951	998.3	1436.0	508.2	81.6	0.946	0.995	0.999	0.009	0.995	-0.003	-0.010	-0.56	-0.19
8	12.165	0.000	-2.208	0.952	998.8	1436.4	508.3	81.5	0.953	1.001	1.000	-0.002	1.001	-0.003	-0.010	-0.57	-0.16
9	12.498	0.000	-2.208	0.952	999.0	1434.4	508.1	81.5	0.959	1.006	1.000	-0.013	1.006	-0.003	-0.010	-0.55	-0.17
10	12.831	0.000	-2.208	0.953	999.6	1434.8	508.6	81.4	0.967	1.012	1.000	-0.025	1.012	-0.002	-0.009	-0.52	-0.13
11	13.164	0.000	-2.208	0.953	999.2	1434.4	508.2	81.4	0.975	1.020	0.999	-0.041	1.020	-0.003	-0.009	-0.49	-0.15
12	13.497	0.000	-2.208	0.951	998.2	1435.7	508.1	81.4	0.982	1.027	1.000	-0.055	1.027	-0.003	-0.008	-0.43	-0.14
13	13.830	0.000	-2.208	0.952	998.5	1434.0	507.7	81.4	0.987	1.031	1.000	-0.063	1.031	-0.002	-0.006	-0.34	-0.13
14	14.163	0.000	-2.208	0.954	1000.0	1435.0	508.9	81.3	0.990	1.039	0.999	-0.080	1.039	-0.002	-0.006	-0.32	-0.13
15	14.496	0.000	-2.208	0.951	998.0	1433.5	507.2	81.4	1.004	1.046	1.000	-0.093	1.046	-0.002	-0.004	-0.24	-0.11
16	14.829	0.000	-2.208	0.950	998.6	1434.8	508.9	81.4	1.010	1.054	0.999	-0.108	1.054	-0.002	-0.003	-0.16	-0.10
17	15.162	0.000	-2.208	0.951	997.5	1434.5	507.3	81.4	1.026	1.066	0.999	-0.134	1.066	-0.002	-0.002	-0.09	-0.08
18	15.495	0.000	-2.208	0.952	998.6	1434.1	507.7	81.5	1.031	1.069	1.000	-0.138	1.069	-0.001	0.002	0.11	-0.06
19	15.828	0.000	-2.208	0.952	999.0	1434.1	508.0	81.5	1.038	1.075	1.000	-0.151	1.075	-0.001	0.003	0.15	-0.05
20	16.161	0.000	-2.208	0.953	999.8	1434.7	508.0	81.4	1.046	1.081	1.000	-0.162	1.081	-0.001	0.005	0.29	-0.04
21	16.494	0.000	-2.208	0.951	997.5	1435.1	507.5	81.4	1.053	1.089	1.000	-0.179	1.089	-0.001	0.008	0.43	-0.04
22	16.827	0.000	-2.208	0.952	998.0	1434.4	508.1	81.4	1.059	1.092	0.999	-0.185	1.092	-0.001	0.011	0.57	-0.06
23	17.160	0.000	-2.208	0.953	999.9	1434.1	508.5	81.4	1.057	1.090	1.000	-0.181	1.090	-0.000	0.012	0.61	-0.03
24	17.493	0.000	-2.208	0.951	998.3	1434.2	507.6	81.5	1.014	1.055	1.000	-0.110	1.055	0.000	0.013	0.69	0.01
25	17.826	0.000	-2.208	0.954	1000.5	1434.3	508.9	81.4	0.979	1.022	0.999	-0.044	1.022	0.000	0.013	0.74	0.22
26	18.159	0.000	-2.208	0.952	998.6	1435.0	508.1	81.4	0.954	1.002	0.999	-0.006	1.002	0.000	0.012	0.67	0.11
27	18.492	0.000	-2.208	0.951	998.2	1435.1	507.9	81.5	0.942	0.992	0.999	0.014	0.992	0.000	0.011	0.51	0.00
28	18.825	0.000	-2.208	0.952	998.6	1433.3	507.5	81.4	0.937	0.986	1.000	0.027	0.986	0.000	0.009	0.55	0.00
29	19.158	0.000	-2.208	0.953	999.6	1434.8	508.6	81.4	0.936	0.985	0.999	0.029	0.985	0.000	0.008	0.47	0.01
30	19.491	0.000	-2.208	0.953	999.4	1435.3	508.7	81.4	0.935	0.985	0.999	0.029	0.985	0.000	0.007	0.40	0.01

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.
AEC DIVISION
A SVERDRUP CORPORATION COMPANY
PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS
TC-532 708 2.999 0.00 21 910 0.02

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	0.952	998.9	1433.6	507.7	81.5	0.951	0.999	1.000	0.001	0.999	-0.002	-0.005	-0.128	-0.10
2	11.167	-0.750	-2.208	0.952	999.2	1435.2	508.4	81.5	0.939	0.968	0.999	0.023	0.988	-0.000	-0.011	-0.61	-0.01
3	12.500	-0.750	-2.208	0.952	998.6	1434.6	507.9	81.5	0.960	1.008	1.000	-0.016	1.008	0.002	-0.012	-0.64	0.04
4	13.833	-0.750	-2.208	0.954	1000.7	1436.8	509.9	81.5	0.989	1.031	0.999	-0.064	1.031	0.002	-0.009	-0.48	0.11
5	15.166	-0.750	-2.208	0.951	998.2	1433.6	507.4	81.4	1.019	1.059	1.000	-0.118	1.059	0.001	-0.002	-0.13	0.07
6	16.499	-0.750	-2.208	0.951	998.0	1434.7	507.5	81.6	1.049	1.085	0.999	-0.172	1.085	-0.003	0.009	0.49	-0.13
7	17.832	-0.750	-2.208	0.951	997.7	1434.8	507.5	81.5	0.965	1.013	1.000	-0.026	1.013	-0.005	0.014	0.80	-0.26
8	19.165	-0.750	-2.208	0.947	994.5	1434.9	505.7	81.5	0.931	0.945	1.000	0.029	0.945	-0.000	0.003	0.44	-0.01
9	20.498	-0.750	-2.208	0.952	998.5	1434.6	507.9	81.5	0.944	0.993	1.000	0.014	0.993	0.000	0.004	0.24	0.02

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 709 3.003 0.00 21 911 0.02

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SWL
1	10.500	-2.750	-1.230	0.952	999.2	1435.3	508.5	81.5	0.932	0.982	1.000	0.035	0.982	-0.008	-0.010	-0.56	-0.46
2	11.833	-2.750	-1.230	0.950	997.2	1434.4	507.1	81.4	0.925	0.977	1.000	0.045	0.977	-0.010	-0.029	-1.59	-0.59
3	13.166	-2.750	-1.230	0.950	997.2	1434.5	507.1	81.5	0.959	1.008	1.000	-0.016	1.007	0.002	-0.031	-1.75	0.39
4	14.499	-2.750	-1.230	0.950	996.8	1435.3	507.2	81.4	0.999	1.043	1.000	-0.086	1.043	0.007	-0.017	-0.92	0.37
5	15.832	-2.750	-1.230	0.948	995.5	1435.0	506.4	81.4	1.037	1.077	0.999	-0.156	1.077	0.007	0.002	0.12	0.37
7	17.165	-2.750	-1.230	0.952	998.7	1435.6	508.2	81.6	1.050	1.085	0.999	-0.172	1.085	-0.007	0.034	1.60	-0.38
9	18.498	-2.750	-1.230	0.948	995.4	1435.2	506.3	81.5	0.906	0.962	0.999	0.074	0.962	0.001	0.014	0.85	0.66
10	19.831	-2.750	-1.230	0.947	994.3	1434.3	505.4	81.4	0.925	0.980	0.999	0.038	0.980	0.003	0.004	0.25	0.19

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 716 3.001 2.00 21 901 1.99

DATE 2-22-78
AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VM/L/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
9	10.500	4.250	-1.230	0.952	998.8	1434.2	507.9	81.4	0.941	0.990	1.000	0.020	0.989	0.007	0.034	1.97	0.43
10	11.166	4.250	-1.230	0.949	995.8	1435.3	506.7	81.2	0.927	0.980	1.000	0.039	0.940	0.013	0.031	1.83	0.78
11	11.832	4.250	-1.230	0.951	997.4	1433.5	506.9	81.3	0.921	0.973	1.000	0.053	0.973	0.021	0.027	1.61	1.23
12	12.498	4.250	-1.230	0.952	998.4	1432.9	507.2	81.4	0.914	0.966	1.000	0.068	0.966	0.028	0.020	1.18	1.67
13	13.164	4.250	-1.230	0.955	1001.0	1435.3	509.5	81.4	0.915	0.964	1.000	0.071	0.964	0.033	0.005	0.29	1.93
14	13.830	4.250	-1.230	0.952	998.1	1432.3	507.0	81.1	0.926	0.977	1.000	0.046	0.977	0.025	-0.005	-0.26	1.48
15	14.496	4.250	-1.230	0.951	997.5	1434.2	507.3	81.1	0.941	0.991	1.000	0.017	0.991	0.017	-0.006	-0.37	0.95
16	15.162	4.250	-1.230	0.952	998.9	1433.2	507.6	81.1	0.969	1.015	1.000	-0.029	1.015	0.008	-0.003	-0.14	0.47
17	15.828	4.250	-1.230	0.950	996.5	1434.5	506.9	81.1	0.991	1.037	0.999	-0.074	1.037	0.004	0.007	0.37	0.21
18	16.494	4.250	-1.230	0.953	999.8	1434.1	508.5	81.2	1.037	1.073	0.999	-0.146	1.072	-0.001	0.019	0.99	-0.04
19	17.160	4.250	-1.230	0.949	995.7	1433.7	506.2	81.0	1.064	1.100	0.999	-0.201	1.099	0.001	0.044	2.31	0.06
20	17.826	4.250	-1.230	0.953	999.6	1434.9	508.7	81.3	0.943	0.991	0.998	0.016	0.990	0.011	0.045	2.63	0.64
21	18.492	4.250	-1.230	0.949	996.0	1433.8	506.3	81.3	0.909	0.964	0.999	0.069	0.964	0.010	0.032	1.91	0.60
22	19.158	4.250	-1.230	0.953	999.5	1432.7	507.9	81.2	0.915	0.966	0.998	0.055	0.966	0.010	0.025	1.45	0.62
23	19.824	4.250	-1.230	0.952	999.0	1432.3	507.4	81.3	0.925	0.976	0.999	0.047	0.975	0.011	0.021	1.23	0.56

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 719 2.995 2.00

SURVEY ALFAS 904 2.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	XL/VM	AAL	SAL
1	10.500	3.500	-2.730	0.949	995.7	1432.7	505.7	81.3	0.937	0.989	1.000	0.021	0.989	0.007	0.029	1.57	0.42
2	10.833	3.500	-2.730	0.949	995.8	1433.8	506.2	81.3	0.933	0.986	1.000	0.029	0.986	0.008	0.027	1.56	0.47
3	11.166	3.500	-2.730	0.951	997.6	1435.7	507.8	81.4	0.932	0.983	0.999	0.033	0.983	0.010	0.025	1.45	0.56
4	11.499	3.500	-2.730	0.950	996.8	1433.6	506.7	81.3	0.927	0.979	1.000	0.041	0.979	0.011	0.023	1.32	0.64
5	11.832	3.500	-2.730	0.951	998.1	1433.7	507.4	81.2	0.928	0.978	1.000	0.042	0.978	0.013	0.020	1.15	0.74
6	12.165	3.500	-2.730	0.952	998.3	1432.9	507.4	81.0	0.928	0.978	1.000	0.043	0.978	0.013	0.018	1.03	0.77
7	12.498	3.500	-2.730	0.953	998.8	1432.6	507.6	81.0	0.929	0.979	1.000	0.042	0.979	0.013	0.014	0.84	0.79
8	12.831	3.500	-2.730	0.954	999.8	1433.8	508.5	81.0	0.932	0.981	1.000	0.039	0.980	0.014	0.012	0.71	0.80
9	13.164	3.500	-2.730	0.950	996.8	1433.0	506.6	80.9	0.933	0.985	1.000	0.030	0.985	0.013	0.010	0.50	0.76
10	13.497	3.500	-2.730	0.951	997.5	1433.2	507.0	81.1	0.938	0.988	1.000	0.023	0.988	0.012	0.009	0.51	0.72
11	13.830	3.500	-2.730	0.952	998.3	1432.8	507.2	81.3	0.943	0.992	1.000	0.015	0.992	0.011	0.008	0.44	0.65
12	14.163	3.500	-2.730	0.953	999.9	1433.4	508.3	81.2	0.950	0.997	1.000	0.007	0.997	0.011	0.007	0.40	0.51
13	14.496	3.500	-2.730	0.951	997.5	1433.7	507.1	81.2	0.957	1.006	1.000	-0.011	1.006	0.009	0.007	0.40	0.52
14	14.829	3.500	-2.730	0.949	996.0	1433.2	506.1	81.3	0.960	1.010	1.000	-0.021	1.010	0.008	0.008	0.47	0.45
15	15.162	3.500	-2.730	0.950	997.0	1433.1	506.7	81.1	0.967	1.015	1.000	-0.030	1.015	0.007	0.010	0.57	0.38
16	15.495	3.500	-2.730	0.952	998.3	1432.2	507.1	81.1	0.978	1.023	1.001	-0.045	1.023	0.006	0.012	0.65	0.31
17	15.828	3.500	-2.730	0.950	996.8	1432.7	506.5	81.0	0.985	1.031	1.000	-0.061	1.030	0.004	0.014	0.78	0.23
18	16.161	3.500	-2.730	0.953	999.5	1434.9	508.7	81.1	1.001	1.042	0.999	-0.085	1.042	0.003	0.016	0.90	0.19
19	16.494	3.500	-2.730	0.952	998.9	1434.4	508.2	81.2	1.025	1.063	0.999	-0.127	1.063	0.002	0.022	1.17	0.12
20	16.827	3.500	-2.730	0.949	996.2	1434.6	506.7	81.2	1.032	1.073	1.000	-0.146	1.072	0.002	0.028	1.51	0.13
21	17.160	3.500	-2.730	0.950	997.0	1432.6	506.4	81.3	1.042	1.080	1.001	-0.160	1.080	0.003	0.035	1.86	0.14
22	17.493	3.500	-2.730	0.953	999.4	1434.4	508.4	81.2	1.038	1.074	1.000	-0.147	1.073	0.006	0.040	2.14	0.33
23	17.826	3.500	-2.730	0.951	998.1	1433.4	507.3	81.2	0.985	1.030	1.000	-0.059	1.029	0.008	0.040	2.21	0.46
24	18.159	3.500	-2.730	0.952	998.8	1433.2	507.0	81.3	0.984	1.002	1.000	-0.003	1.001	0.008	0.036	2.05	0.49
25	18.492	3.500	-2.730	0.952	998.6	1433.0	507.5	81.2	0.941	0.990	1.000	0.020	0.990	0.008	0.032	1.87	0.46
26	18.825	3.500	-2.730	0.954	1000.5	1433.1	508.6	81.2	0.936	0.984	1.000	0.032	0.983	0.008	0.030	1.72	0.46
27	19.158	3.500	-2.730	0.952	998.7	1434.1	507.9	81.2	0.935	0.985	1.000	0.029	0.985	0.008	0.027	1.59	0.44
28	19.491	3.500	-2.730	0.951	997.5	1433.3	507.0	81.2	0.934	0.985	1.000	0.029	0.985	0.008	0.025	1.44	0.44

DATE 9-MAR-78 PROJECT NO PAIC-MOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART

TC-532 717

SEXCIC-6 ALFA CONFIG SURVEY ALFAS

2.00 2.00

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SPL
1	10.500	3.500	-1.980	0.951	998.0	1434.2	507.5	81.4	0.936	0.987	1.000	0.026	0.986	0.009	0.030	1.76	0.49
2	10.833	3.500	-1.980	0.952	998.3	1435.0	508.0	81.3	0.929	0.980	0.999	0.039	0.979	0.011	0.028	1.66	0.63
3	11.166	3.500	-1.980	0.952	998.6	1435.5	507.8	81.2	0.926	0.976	0.999	0.047	0.976	0.013	0.026	1.50	0.75
4	11.499	3.500	-1.980	0.952	998.7	1432.9	507.6	81.1	0.921	0.972	1.000	0.055	0.972	0.015	0.023	1.34	0.88
5	11.832	3.500	-1.980	0.953	999.8	1434.4	508.7	81.2	0.922	0.972	1.000	0.057	0.971	0.017	0.019	1.12	1.02
6	12.165	3.500	-1.980	0.954	1000.2	1433.0	508.3	81.3	0.921	0.971	1.000	0.058	0.971	0.019	0.015	0.91	1.10
7	12.498	3.500	-1.980	0.953	1000.0	1435.3	509.0	81.4	0.922	0.972	1.000	0.057	0.971	0.020	0.011	0.64	1.16
8	12.831	3.500	-1.980	0.952	998.3	1433.8	507.6	81.2	0.922	0.973	1.000	0.053	0.973	0.019	0.007	0.44	1.13
9	13.164	3.500	-1.980	0.952	998.7	1433.7	507.8	81.1	0.928	0.978	1.000	0.044	0.978	0.018	0.005	0.27	1.04
10	13.497	3.500	-1.980	0.950	996.6	1432.9	506.4	81.1	0.933	0.985	1.000	0.031	0.984	0.016	0.002	0.12	0.92
11	13.830	3.500	-1.980	0.951	997.9	1433.5	507.3	81.2	0.939	0.989	1.000	0.021	0.989	0.014	0.001	0.07	0.82
12	14.163	3.500	-1.980	0.951	997.9	1432.9	507.1	81.1	0.947	0.996	1.000	0.007	0.996	0.012	0.001	0.06	0.69
13	14.496	3.500	-1.980	0.952	998.6	1432.1	507.2	81.1	0.955	1.002	1.000	0.004	1.002	0.010	0.002	0.09	0.58
14	14.829	3.500	-1.980	0.954	1000.7	1433.1	508.7	81.2	0.964	1.009	1.000	0.018	1.009	0.008	0.003	0.16	0.45
15	15.162	3.500	-1.980	0.953	999.2	1434.1	508.2	81.2	0.971	1.017	0.999	0.034	1.016	0.007	0.006	0.33	0.38
16	15.495	3.500	-1.980	0.952	998.9	1434.8	508.2	81.4	0.983	1.027	0.999	0.055	1.027	0.005	0.009	0.48	0.30
17	15.828	3.500	-1.980	0.951	998.1	1434.2	507.5	81.4	0.992	1.036	1.000	0.072	1.036	0.004	0.011	0.63	0.21
18	16.161	3.500	-1.980	0.952	999.0	1434.5	508.2	81.3	1.010	1.050	1.000	0.101	1.050	0.003	0.016	0.87	0.14
19	16.494	3.500	-1.980	0.951	998.1	1433.5	507.4	81.3	1.028	1.067	1.000	0.135	1.067	0.001	0.022	1.16	0.06
20	16.827	3.500	-1.980	0.953	999.4	1433.4	508.0	81.3	1.047	1.081	1.001	0.162	1.081	0.001	0.031	1.62	0.05
21	17.160	3.500	-1.980	0.953	999.5	1434.1	508.4	81.2	1.062	1.094	0.999	0.189	1.093	0.002	0.041	2.13	0.12
22	17.493	3.500	-1.980	0.950	996.5	1433.3	506.5	81.0	1.030	1.070	1.000	0.140	1.069	0.008	0.043	2.28	0.45
23	17.826	3.500	-1.980	0.952	999.0	1433.4	507.8	81.3	0.967	1.013	1.000	0.026	1.012	0.010	0.042	2.35	0.59
24	18.159	3.500	-1.980	0.952	998.2	1432.5	507.1	81.1	0.938	0.988	1.000	0.024	0.987	0.010	0.037	2.15	0.60
25	18.492	3.500	-1.980	0.953	999.0	1433.7	508.0	81.2	0.929	0.979	1.000	0.042	0.978	0.009	0.032	1.48	0.55
26	18.825	3.500	-1.980	0.953	999.2	1433.3	507.9	81.2	0.926	0.976	0.999	0.047	0.975	0.009	0.028	1.67	0.54
27	19.158	3.500	-1.980	0.952	998.7	1433.9	507.9	81.1	0.924	0.975	1.000	0.049	0.975	0.009	0.026	1.52	0.52
28	19.491	3.500	-1.980	0.950	997.3	1433.8	507.0	81.3	0.928	0.980	0.999	0.039	0.980	0.009	0.023	1.33	0.51

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 713 3.002 2.00 21 SURVEY ALFAS 903 2.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	3.500	-1.230	0.954	1000.3	1432.9	508.4	81.1	0.933	0.981	1.000	0.037	0.981	0.009	0.033	1.93	0.55
2	10.833	3.500	-1.230	0.953	999.0	1433.7	508.0	81.2	0.925	0.976	1.000	0.049	0.975	0.013	0.031	1.60	0.76
3	11.166	3.500	-1.230	0.954	1000.1	1434.1	508.7	81.3	0.919	0.969	0.999	0.060	0.969	0.017	0.028	1.65	0.93
4	11.499	3.500	-1.230	0.952	998.8	1433.4	507.7	81.2	0.915	0.967	1.000	0.066	0.966	0.021	0.024	1.45	1.26
5	11.832	3.500	-1.230	0.951	997.5	1433.5	507.1	81.2	0.909	0.962	1.000	0.076	0.961	0.025	0.019	1.13	1.52
6	12.165	3.500	-1.230	0.952	998.8	1434.9	508.2	81.4	0.907	0.959	1.000	0.080	0.959	0.029	0.012	0.74	1.71
7	12.498	3.500	-1.230	0.951	998.1	1432.0	508.8	81.3	0.905	0.958	1.001	0.084	0.958	0.030	0.005	0.30	1.82
8	12.831	3.500	-1.230	0.954	1000.2	1435.2	509.0	81.4	0.910	0.961	1.000	0.078	0.960	0.028	-0.002	-0.15	1.66
9	13.164	3.500	-1.230	0.950	996.6	1433.0	506.3	81.3	0.914	0.968	1.000	0.064	0.968	0.024	-0.007	-0.43	1.41
10	13.497	3.500	-1.230	0.951	997.9	1434.3	507.6	81.2	0.925	0.976	1.000	0.047	0.976	0.019	-0.011	-0.62	1.11
11	13.830	3.500	-1.230	0.952	998.3	1432.1	507.0	81.1	0.933	0.983	1.000	0.034	0.983	0.015	-0.010	-0.58	0.90
12	14.163	3.500	-1.230	0.954	1000.3	1432.3	508.9	81.2	0.945	0.992	0.999	0.015	0.992	0.012	-0.009	-0.50	0.71
13	14.496	3.500	-1.230	0.947	994.2	1433.4	508.1	81.3	0.952	1.004	1.000	-0.009	1.004	0.009	-0.006	-0.37	0.49
14	14.829	3.500	-1.230	0.948	995.3	1434.4	506.1	81.3	0.962	1.012	0.999	-0.025	1.012	0.006	-0.004	-0.22	0.36
15	15.162	3.500	-1.230	0.950	996.6	1435.1	507.0	81.3	0.974	1.022	1.000	-0.045	1.022	0.005	0.000	0.00	0.25
16	15.495	3.500	-1.230	0.951	998.1	1435.0	507.9	81.3	0.988	1.032	1.000	-0.065	1.032	0.003	0.005	0.26	0.19
17	15.828	3.500	-1.230	0.952	998.9	1432.5	507.4	81.3	0.996	1.038	1.000	-0.076	1.038	0.002	0.008	0.45	0.10
19	16.161	3.500	-1.230	0.951	998.2	1434.0	507.5	81.4	1.021	1.061	1.000	-0.121	1.060	0.000	0.014	0.74	0.01
20	16.494	3.500	-1.230	0.951	997.5	1433.7	507.1	81.3	1.038	1.076	1.000	-0.152	1.076	-0.001	0.022	1.16	-0.03
21	16.827	3.500	-1.230	0.952	999.1	1434.7	508.3	81.4	1.055	1.089	1.000	-0.177	1.088	-0.001	0.033	1.75	-0.05
22	17.160	3.500	-1.230	0.951	997.7	1433.8	507.2	81.3	1.055	1.090	1.000	-0.181	1.090	0.004	0.044	2.30	0.20
23	17.493	3.500	-1.230	0.953	999.1	1432.6	507.7	81.0	1.017	1.056	1.000	-0.112	1.055	0.011	0.048	2.60	0.61
24	17.826	3.500	-1.230	0.953	999.0	1434.7	508.4	81.1	0.950	0.997	0.998	0.003	0.996	0.012	0.043	2.91	0.99
25	18.159	3.500	-1.230	0.952	998.7	1431.4	507.1	81.0	0.920	0.971	1.000	0.057	0.970	0.011	0.038	2.25	0.68
26	18.492	3.500	-1.230	0.952	998.8	1433.2	507.8	81.0	0.912	0.963	0.999	0.071	0.963	0.011	0.032	1.92	0.53
27	18.825	3.500	-1.230	0.954	999.7	1433.0	508.2	81.0	0.912	0.963	0.999	0.073	0.962	0.010	0.027	1.61	0.59
28	19.158	3.500	-1.230	0.952	998.2	1433.6	507.5	81.1	0.914	0.966	0.999	0.066	0.966	0.009	0.023	1.39	0.56
29	19.491	3.500	-1.230	0.954	1000.2	1433.4	508.5	81.1	0.921	0.971	0.999	0.056	0.970	0.010	0.021	1.25	0.56

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 720 3.001 2.00 21 905 2.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	0.953	999.7	1433.3	508.2	81.3	0.926	0.976	1.001	0.049	0.975	0.012	0.031	1.84	0.70
2	11.166	2.750	-1.230	0.955	1001.1	1434.7	509.4	81.3	0.909	0.959	1.000	0.082	0.958	0.021	0.021	1.24	1.28
3	11.832	2.750	-1.230	0.953	999.4	1433.4	508.1	81.2	0.901	0.953	1.000	0.093	0.953	0.026	0.004	0.25	1.55
4	12.498	2.750	-1.230	0.950	997.2	1433.0	506.6	81.3	0.908	0.952	1.000	0.077	0.961	0.020	-0.008	-0.36	1.19
5	13.164	2.750	-1.230	0.952	999.1	1434.6	508.3	81.4	0.925	0.976	1.000	0.049	0.976	0.013	-0.012	-0.71	0.74
6	13.830	2.750	-1.230	0.951	998.1	1434.6	507.7	81.3	0.945	0.994	1.000	0.012	0.994	0.008	-0.010	-0.57	0.44
7	14.496	2.750	-1.230	0.949	996.1	1433.3	506.2	81.2	0.960	1.010	1.001	-0.019	1.010	0.004	-0.005	-0.28	0.23
8	15.162	2.750	-1.230	0.951	997.8	1434.1	507.4	81.2	0.930	1.026	1.000	-0.051	1.026	0.003	0.002	0.11	0.14
9	15.828	2.750	-1.230	0.952	999.9	1434.0	508.0	81.3	1.005	1.046	1.000	-0.092	1.046	0.002	0.010	0.53	0.08
10	16.494	2.750	-1.230	0.951	997.5	1435.9	507.8	81.4	1.042	1.080	1.000	-0.160	1.080	0.001	0.023	1.33	0.04
11	17.160	2.750	-1.230	0.953	999.8	1433.4	509.2	81.4	1.053	1.086	1.000	-0.174	1.085	0.009	0.045	2.37	0.48
12	17.826	2.750	-1.230	0.952	998.8	1433.0	507.6	81.2	0.952	1.000	1.000	0.001	0.999	0.014	0.043	2.55	0.80
13	18.492	2.750	-1.230	0.953	999.4	1433.9	508.2	81.3	0.917	0.968	0.999	0.064	0.967	0.011	0.031	1.82	0.67
14	19.158	2.750	-1.230	0.951	998.2	1434.1	507.6	81.3	0.918	0.970	0.999	0.059	0.969	0.009	0.023	1.33	0.55
15	19.824	2.750	-1.230	0.952	998.7	1434.2	507.9	81.3	0.929	0.979	0.999	0.040	0.979	0.008	0.018	1.08	0.49

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARGO, INC.
AEC DIVISION
A SVERDRUP CORPORATION COMPANY
PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS DATE
TC-532 721 3.000 2.00 21 906 2.01 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	WL	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
1	9.834	0.750	-2.208	0.950	996.7	1433.3	506.6	81.0	0.942	0.993	0.999	0.013	0.993	0.006	0.020	1.17	0.33
2	10.500	0.750	-2.208	0.951	997.5	1433.7	507.1	81.2	0.928	0.979	1.000	0.041	0.979	0.005	0.016	0.96	0.29
3	11.166	0.750	-2.208	0.952	998.5	1433.8	507.8	81.1	0.919	0.970	1.000	0.060	0.970	0.004	0.010	0.81	0.21
4	11.832	0.750	-2.208	0.954	1000.5	1434.6	509.1	81.3	0.921	0.970	1.000	0.058	0.970	0.002	0.006	0.33	0.13
8	12.498	0.750	-2.208	0.946	993.2	1434.2	504.8	81.3	0.923	0.980	1.001	0.041	0.980	0.001	0.003	0.15	0.07
9	13.164	0.750	-2.208	0.949	995.6	1434.3	506.2	81.3	0.936	0.989	1.000	0.023	0.989	0.000	0.001	0.08	0.03
10	13.830	0.750	-2.208	0.951	997.0	1433.8	507.0	81.0	0.952	1.001	1.000	-0.002	1.001	0.000	0.002	0.14	0.02
11	14.496	0.750	-2.208	0.954	999.8	1433.7	508.5	81.1	0.968	1.013	1.000	-0.025	1.013	-0.000	0.004	0.25	-0.00
12	15.162	0.750	-2.208	0.953	999.7	1434.0	508.5	81.2	0.984	1.027	1.000	-0.055	1.027	0.001	0.007	0.38	0.05
13	15.828	0.750	-2.208	0.951	997.5	1433.0	506.9	81.2	1.000	1.043	1.000	-0.086	1.043	0.002	0.011	0.60	0.09
15	16.494	0.750	-2.208	0.946	993.4	1433.2	504.7	81.1	1.025	1.069	1.000	-0.138	1.069	0.003	0.017	0.94	0.17
16	17.160	0.750	-2.208	0.950	996.9	1433.4	506.9	81.0	1.039	1.077	1.000	-0.154	1.077	0.007	0.024	1.29	0.38
17	17.826	0.750	-2.208	0.952	998.8	1432.9	507.7	81.0	0.984	1.028	1.000	-0.057	1.028	0.008	0.025	1.37	0.45
18	18.492	0.750	-2.208	0.946	993.3	1432.5	504.5	81.0	0.938	0.992	1.000	0.016	0.992	0.006	0.021	1.19	0.34
19	19.158	0.750	-2.208	0.951	997.7	1434.1	507.4	81.2	0.935	0.986	1.000	0.028	0.985	0.004	0.018	1.04	0.26
20	19.824	0.750	-2.208	0.947	994.5	1432.2	504.9	81.1	0.934	0.988	1.000	0.026	0.987	0.004	0.015	0.88	0.22

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REF10-0 ALFA CONFIG SURVEY ALFAS

TC-532 724 2.997 2.00 21 909 2.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AWL	SWL
1	9.834	0.000	-3.708	0.947	994.5	1433.6	505.4	81.1	0.948	1.000	1.000	-0.001	1.000	-0.002	0.025	1.41	-0.14
2	10.167	0.000	-3.708	0.948	994.7	1432.8	505.4	80.9	0.940	0.993	0.999	0.013	0.993	-0.002	0.023	1.34	-0.14
3	10.500	0.000	-3.708	0.948	995.0	1433.1	505.6	81.0	0.936	0.989	1.000	0.023	0.989	-0.002	0.022	1.28	-0.14
4	10.833	0.000	-3.708	0.949	996.0	1433.7	506.2	81.3	0.933	0.986	1.000	0.028	0.986	-0.002	0.020	1.18	-0.14
5	11.166	0.000	-3.708	0.950	997.0	1434.6	507.2	81.1	0.931	0.983	1.000	0.033	0.983	-0.002	0.018	1.07	-0.13
6	11.499	0.000	-3.708	0.949	996.3	1432.9	506.2	81.2	0.929	0.981	1.000	0.038	0.981	-0.002	0.017	1.00	-0.10
7	11.832	0.000	-3.708	0.951	997.7	1434.8	507.7	81.0	0.930	0.982	1.000	0.037	0.981	-0.002	0.015	0.86	-0.10
8	12.165	0.000	-3.708	0.952	998.1	1433.9	507.6	81.1	0.931	0.982	1.000	0.036	0.982	-0.002	0.013	0.76	-0.10
9	12.498	0.000	-3.708	0.951	997.4	1432.2	506.7	81.0	0.934	0.984	1.000	0.032	0.984	-0.002	0.011	0.66	-0.11
10	12.831	0.000	-3.708	0.952	998.6	1433.4	507.7	81.1	0.937	0.986	1.000	0.028	0.986	-0.002	0.011	0.62	-0.10
11	13.164	0.000	-3.708	0.953	999.4	1432.7	508.0	80.8	0.941	0.989	1.000	0.023	0.989	-0.002	0.010	0.59	-0.10
12	13.497	0.000	-3.708	0.952	998.1	1432.6	507.2	80.9	0.945	0.994	1.000	0.012	0.994	-0.002	0.009	0.54	-0.10
13	13.830	0.000	-3.708	0.951	997.2	1433.3	506.9	81.0	0.947	0.997	1.000	0.006	0.997	-0.002	0.010	0.56	-0.10
14	14.163	0.000	-3.708	0.952	998.6	1434.4	508.0	81.1	0.954	1.002	1.000	-0.005	1.002	-0.002	0.010	0.57	-0.09
15	14.496	0.000	-3.708	0.954	1000.4	1434.6	509.1	81.0	0.962	1.007	1.000	-0.015	1.007	-0.002	0.010	0.59	-0.09
16	14.829	0.000	-3.708	0.951	997.4	1433.0	506.8	81.2	0.964	1.012	1.000	-0.024	1.012	-0.001	0.012	0.65	-0.08
17	15.162	0.000	-3.708	0.953	999.2	1433.5	508.1	81.0	0.971	1.016	0.999	-0.033	1.016	-0.001	0.013	0.71	-0.08
18	15.495	0.000	-3.708	0.955	1000.7	1433.1	508.8	81.0	0.980	1.022	1.000	-0.045	1.022	-0.001	0.014	0.78	-0.08
19	15.828	0.000	-3.708	0.948	994.6	1434.7	505.9	81.1	0.982	1.031	0.999	-0.062	1.031	-0.001	0.015	0.85	-0.08
20	16.161	0.000	-3.708	0.949	995.7	1434.2	506.0	81.1	0.989	1.035	1.000	-0.071	1.035	-0.002	0.018	0.99	-0.10
21	16.494	0.000	-3.708	0.950	997.0	1432.8	506.6	81.0	0.999	1.043	1.000	-0.087	1.043	-0.002	0.021	1.14	-0.10
22	16.827	0.000	-3.708	0.952	998.8	1432.6	507.5	81.1	1.015	1.055	1.000	-0.109	1.054	-0.002	0.024	1.28	-0.11
23	17.160	0.000	-3.708	0.949	995.9	1433.0	506.1	81.0	1.018	1.061	0.999	-0.121	1.060	-0.002	0.027	1.44	-0.13
24	17.493	0.000	-3.708	0.948	994.8	1434.2	505.8	81.1	0.987	1.035	0.999	-0.072	1.035	-0.002	0.027	1.50	-0.13
25	17.826	0.000	-3.708	0.947	993.6	1433.3	504.9	81.1	0.969	1.020	1.000	-0.041	1.020	-0.002	0.028	1.58	-0.11
26	18.159	0.000	-3.708	0.948	994.6	1434.3	505.8	81.1	0.958	1.009	1.000	-0.018	1.008	-0.002	0.027	1.51	-0.10
27	18.492	0.000	-3.708	0.950	997.1	1434.1	507.1	81.1	0.953	1.002	1.000	-0.004	1.002	-0.002	0.026	1.47	-0.11
28	18.825	0.000	-3.708	0.953	999.1	1434.0	508.2	81.1	0.949	0.997	1.000	0.007	0.996	-0.002	0.024	1.41	-0.11
29	19.158	0.000	-3.708	0.948	994.4	1433.9	505.6	80.9	0.940	0.993	0.999	0.012	0.993	-0.002	0.023	1.32	-0.10
30	19.491	0.000	-3.708	0.950	996.2	1432.8	506.2	80.9	0.940	0.992	1.000	0.016	0.992	-0.002	0.021	1.24	-0.09

DATE 9-WAR-78 PROJECT NO P41C-MOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 722 3.002 2.00

SURVEY ALFAS 907 2.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPU	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-2.958	0.951	998.1	1434.5	507.7	81.3	0.948	0.997	0.999	0.005	0.997	-0.002	0.022	1.27	-0.12
2	10.167	0.000	-2.958	0.951	997.6	1433.3	507.1	81.2	0.940	0.991	1.000	0.009	0.990	-0.002	0.021	1.19	-0.12
3	10.500	0.000	-2.958	0.952	998.5	1434.9	508.1	81.3	0.934	0.984	1.000	0.031	0.984	-0.002	0.019	1.11	-0.12
4	10.833	0.000	-2.958	0.953	998.3	1434.0	508.2	81.2	0.929	0.979	1.000	0.042	0.978	-0.002	0.017	1.01	-0.11
5	11.166	0.000	-2.958	0.953	999.7	1433.6	508.2	81.3	0.927	0.976	1.000	0.047	0.976	-0.002	0.015	0.86	-0.10
6	11.499	0.000	-2.958	0.954	1000.2	1433.0	509.0	81.3	0.926	0.976	1.000	0.048	0.976	-0.002	0.012	0.73	-0.10
7	11.832	0.000	-2.958	0.954	997.9	1433.9	507.4	81.3	0.925	0.976	1.000	0.047	0.976	-0.002	0.011	0.63	-0.10
8	12.165	0.000	-2.958	0.952	998.5	1434.4	508.0	81.2	0.927	0.978	1.000	0.044	0.978	-0.001	0.009	0.54	-0.09
9	12.498	0.000	-2.958	0.952	999.0	1434.1	508.1	81.2	0.932	0.982	1.000	0.037	0.982	-0.002	0.008	0.44	-0.10
10	12.831	0.000	-2.958	0.953	999.9	1433.2	508.3	81.2	0.934	0.982	1.000	0.035	0.982	-0.002	0.007	0.39	-0.09
11	13.164	0.000	-2.958	0.951	997.9	1433.6	507.3	81.2	0.938	0.988	0.999	0.022	0.988	-0.002	0.006	0.35	-0.11
12	13.497	0.000	-2.958	0.952	998.6	1433.7	508.2	81.1	0.944	0.993	1.000	0.014	0.993	-0.001	0.006	0.35	-0.08
13	13.830	0.000	-2.958	0.953	999.7	1433.0	508.7	81.3	0.952	0.999	1.000	0.001	0.999	-0.001	0.006	0.36	-0.06
14	14.163	0.000	-2.958	0.951	997.3	1433.2	506.8	81.2	0.954	1.003	0.999	-0.005	1.003	-0.001	0.007	0.41	-0.07
15	14.496	0.000	-2.958	0.952	998.5	1432.8	507.3	81.3	0.960	1.007	1.000	-0.015	1.007	-0.001	0.008	0.43	-0.08
16	14.829	0.000	-2.958	0.953	999.3	1432.5	507.7	81.2	0.966	1.012	1.001	-0.023	1.012	-0.001	0.008	0.48	-0.07
17	15.162	0.000	-2.958	0.950	997.2	1432.9	506.6	81.3	0.974	1.021	1.000	-0.042	1.021	-0.001	0.010	0.55	-0.06
18	15.495	0.000	-2.958	0.952	998.4	1433.0	507.4	81.2	0.981	1.026	1.000	-0.052	1.026	-0.001	0.011	0.62	-0.05
19	15.828	0.000	-2.958	0.952	999.0	1432.9	507.7	81.2	0.989	1.032	1.000	-0.064	1.032	-0.002	0.013	0.72	-0.08
20	16.161	0.000	-2.958	0.948	994.7	1433.8	505.6	81.2	0.996	1.043	1.000	-0.087	1.043	-0.001	0.015	0.84	-0.07
21	16.494	0.000	-2.958	0.950	996.4	1434.1	506.7	81.2	1.012	1.055	1.000	-0.110	1.055	-0.002	0.018	1.00	-0.06
22	16.827	0.000	-2.958	0.951	997.5	1433.0	506.9	81.2	1.027	1.066	1.000	-0.133	1.066	-0.002	0.022	1.16	-0.10
23	17.160	0.000	-2.958	0.951	997.8	1433.8	507.3	81.2	1.032	1.070	1.000	-0.141	1.070	-0.002	0.025	1.32	-0.10
24	17.493	0.000	-2.958	0.952	998.4	1433.2	507.4	81.2	1.005	1.047	1.000	-0.094	1.046	-0.001	0.025	1.42	-0.07
25	17.826	0.000	-2.958	0.952	998.5	1434.2	507.8	81.3	0.984	1.028	1.000	-0.057	1.028	-0.001	0.027	1.48	-0.07
26	18.159	0.000	-2.958	0.952	998.6	1433.1	507.5	81.2	0.961	1.008	1.000	-0.016	1.008	-0.001	0.025	1.41	-0.05
27	18.492	0.000	-2.958	0.952	998.8	1433.2	507.6	81.3	0.952	1.000	1.000	0.001	0.999	-0.001	0.023	1.33	-0.07
28	18.825	0.000	-2.958	0.948	995.2	1434.3	506.0	81.3	0.940	0.993	1.000	0.014	0.992	-0.001	0.021	1.24	-0.07
29	19.158	0.000	-2.958	0.949	994.3	1432.9	506.1	81.3	0.936	0.988	1.000	0.024	0.988	-0.001	0.020	1.15	-0.06
30	19.491	0.000	-2.958	0.952	998.6	1433.5	507.6	81.3	0.939	0.989	1.000	0.023	0.988	-0.001	0.019	1.09	-0.06

DATE 9-WAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVEUDRUP CORPORATION COMPANY

PROPELUSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-5 ALFA CONFIG

TC-532 723 2.999 2.00

DATE 2-23-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AWL	SWL
1	9.834	0.000	-2.208	0.948	995.0	1434.6	506.1	81.2	0.942	0.995	1.000	0.010	0.995	-0.002	0.016	0.94	-0.12
2	10.167	0.000	-2.208	0.949	995.6	1434.6	506.4	81.2	0.934	0.987	1.000	0.026	0.987	-0.002	0.015	0.88	-0.12
3	10.500	0.000	-2.208	0.948	994.7	1432.1	505.0	81.1	0.925	0.980	1.001	0.041	0.980	-0.002	0.013	0.78	-0.09
4	10.833	0.000	-2.208	0.950	996.4	1433.5	506.5	81.1	0.921	0.974	1.000	0.051	0.974	-0.002	0.011	0.66	-0.11
5	11.166	0.000	-2.208	0.950	996.6	1432.8	506.3	81.2	0.919	0.972	1.000	0.056	0.972	-0.002	0.009	0.56	-0.14
6	11.499	0.000	-2.208	0.951	997.4	1433.2	506.8	81.3	0.919	0.971	1.000	0.057	0.971	-0.002	0.007	0.42	-0.11
7	11.832	0.000	-2.208	0.952	998.8	1436.2	508.7	81.3	0.920	0.972	1.000	0.056	0.972	-0.002	0.005	0.32	-0.11
8	12.165	0.000	-2.208	0.952	998.5	1433.1	507.5	81.2	0.923	0.974	1.000	0.051	0.974	-0.002	0.004	0.23	-0.12
9	12.498	0.000	-2.208	0.953	999.4	1433.8	508.2	81.3	0.928	0.978	1.000	0.044	0.978	-0.002	0.003	0.18	-0.12
10	12.831	0.000	-2.208	0.954	1000.1	1433.8	508.6	81.2	0.933	0.981	1.000	0.036	0.981	-0.002	0.002	0.13	-0.10
11	13.164	0.000	-2.208	0.952	998.4	1433.9	507.6	81.3	0.938	0.988	1.000	0.024	0.988	-0.002	0.002	0.11	-0.11
12	13.497	0.000	-2.208	0.953	999.2	1434.4	508.3	81.2	0.946	0.994	0.999	0.012	0.994	-0.002	0.002	0.13	-0.12
13	13.830	0.000	-2.208	0.950	997.0	1433.1	506.6	81.3	0.950	1.000	1.000	-0.001	1.000	-0.002	0.003	0.19	-0.10
14	14.163	0.000	-2.208	0.951	997.6	1432.8	507.0	81.1	0.958	1.006	1.000	-0.012	1.006	-0.002	0.004	0.24	-0.11
15	14.496	0.000	-2.208	0.952	998.5	1432.0	507.2	81.0	0.966	1.013	1.000	-0.025	1.013	-0.002	0.005	0.28	-0.09
16	14.829	0.000	-2.208	0.951	997.3	1433.5	507.0	81.0	0.972	1.019	0.999	-0.039	1.019	-0.001	0.006	0.34	-0.08
17	15.162	0.000	-2.208	0.952	998.9	1434.7	508.3	81.2	0.983	1.027	0.999	-0.056	1.027	-0.001	0.007	0.39	-0.07
18	15.495	0.000	-2.208	0.954	996.3	1432.3	506.0	81.2	0.989	1.035	1.001	-0.069	1.035	-0.001	0.008	0.47	-0.07
19	15.828	0.000	-2.208	0.951	997.9	1433.7	507.3	81.2	1.002	1.045	1.000	-0.090	1.045	-0.001	0.010	0.54	-0.06
20	16.161	0.000	-2.208	0.952	998.6	1434.7	508.1	81.2	1.018	1.058	1.000	-0.117	1.058	-0.001	0.012	0.64	-0.05
21	16.494	0.000	-2.208	0.952	998.6	1434.2	508.0	81.1	1.029	1.067	0.999	-0.136	1.067	-0.001	0.015	0.78	-0.07
22	16.827	0.000	-2.208	0.950	996.6	1432.3	506.1	81.2	1.036	1.075	1.000	-0.151	1.075	-0.002	0.018	0.95	-0.08
23	17.160	0.000	-2.208	0.952	998.5	1432.9	507.4	81.2	1.040	1.077	1.000	-0.154	1.077	-0.001	0.020	1.06	-0.07
24	17.493	0.000	-2.208	0.954	1000.7	1433.7	508.9	81.3	1.027	1.063	0.999	-0.127	1.063	-0.001	0.021	1.12	-0.05
25	17.826	0.000	-2.208	0.952	998.3	1433.5	507.5	81.2	0.981	1.026	1.000	-0.052	1.025	-0.000	0.021	1.19	-0.02
26	18.159	0.000	-2.208	0.952	998.5	1433.8	507.7	81.2	0.963	1.010	1.000	-0.020	1.010	-0.001	0.020	1.14	-0.04
27	18.492	0.000	-2.208	0.952	998.2	1433.3	507.4	81.2	0.946	0.995	1.000	0.009	0.995	-0.001	0.018	1.06	-0.05
28	18.825	0.000	-2.208	0.952	998.3	1434.0	507.6	81.3	0.942	0.991	1.000	0.017	0.991	-0.001	0.017	0.97	-0.05
29	19.158	0.000	-2.208	0.952	997.9	1433.7	507.5	80.9	0.936	0.986	1.000	0.027	0.986	-0.000	0.015	0.89	-0.03
30	19.491	0.000	-2.208	0.954	1000.2	1433.6	508.7	80.9	0.939	0.987	1.000	0.026	0.987	-0.001	0.014	0.83	-0.04

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY AIFAS

TC-532 725 3.001 2.00 21 910 2.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	9.834	-0.750	-2.208	0.952	997.9	1433.3	507.3	81.0	0.944	0.994	0.999	0.012	0.993	-0.010	0.021	1.20	-0.58
2	11.167	-0.750	-2.208	0.955	1000.8	1434.7	509.3	81.2	0.920	0.969	0.999	0.060	0.969	-0.007	0.011	0.67	-0.43
3	12.500	-0.750	-2.208	0.949	995.7	1433.1	505.9	81.2	0.923	0.977	1.000	0.045	0.977	-0.005	0.004	0.22	-0.28
4	13.833	-0.750	-2.208	0.953	999.1	1433.9	508.1	81.1	0.951	0.990	1.000	0.002	0.999	-0.003	0.003	0.18	-0.18
5	15.166	-0.750	-2.208	0.947	993.7	1434.1	505.2	81.2	0.976	1.026	1.000	-0.053	1.026	-0.003	0.007	0.40	-0.17
6	16.499	-0.750	-2.208	0.953	999.8	1433.5	508.3	81.3	1.028	1.065	1.000	-0.131	1.065	-0.007	0.017	0.91	-0.35
8	17.832	-0.750	-2.208	0.946	993.1	1434.7	505.0	81.2	0.962	1.014	0.999	-0.030	1.014	-0.010	0.023	1.29	-0.54
9	19.165	-0.750	-2.208	0.954	1000.5	1433.9	509.0	81.0	0.936	0.983	0.999	0.032	0.983	-0.006	0.018	1.03	-0.36
12	20.498	-0.750	-2.208	0.946	993.6	1433.1	504.7	81.2	0.938	0.992	1.000	0.015	0.992	-0.005	0.013	0.75	-0.30

DATE 9-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-5 ALFA CONFIG SURVEY ALFAS

TC-532 726 2.997 2.00 21 911 2.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 47

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	FTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-1.230	0.948	995.2	1432.9	505.6	81.0	0.921	0.975	1.000	0.049	0.975	-0.017	0.033	1.92	-0.99
2	11.833	-2.750	-1.230	0.951	997.6	1432.9	507.0	81.0	0.897	0.951	1.000	0.098	0.951	-0.028	0.006	0.36	-1.69
3	13.166	-2.750	-1.230	0.954	999.6	1433.5	508.4	80.9	0.923	0.973	1.000	0.054	0.973	-0.017	-0.012	-0.71	-0.97
4	14.499	-2.750	-1.230	0.954	999.9	1434.1	508.7	81.0	0.960	1.006	0.999	-0.012	1.006	-0.007	-0.006	-0.33	-0.41
5	15.832	-2.750	-1.230	0.952	998.7	1433.8	508.0	80.9	1.009	1.049	1.000	-0.099	1.049	-0.004	0.010	0.57	-0.20
7	17.165	-2.750	-1.230	0.947	993.9	1433.5	505.2	81.0	1.040	1.082	1.000	-0.164	1.081	-0.015	0.043	2.30	-0.78
9	18.498	-2.750	-1.230	0.947	993.4	1432.6	504.6	80.9	0.909	0.966	0.999	0.066	0.966	-0.012	0.025	1.49	-0.71
10	19.831	-2.750	-1.230	0.952	995.4	1433.6	507.6	81.1	0.929	0.979	0.999	0.040	0.979	-0.009	0.015	0.90	-0.56

DATE 9-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 727 3.000 5.00

21

SURVEY

ALFAS

5.00

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
6	10.500	4.250	-1.230	0.951	997.3	1433.2	505.9	81.1	0.923	0.975	0.999	0.048	0.971	0.016	0.091	5.38	0.92
7	11.166	4.250	-1.230	0.947	993.9	1432.4	504.8	81.0	0.905	0.962	1.000	0.076	0.957	0.025	0.087	5.22	1.48
8	11.832	4.250	-1.230	0.949	996.2	1434.4	506.6	81.2	0.892	0.948	0.999	0.102	0.944	0.038	0.062	4.96	2.29
9	12.498	4.250	-1.230	0.952	998.0	1434.9	507.9	81.1	0.876	0.932	0.999	0.134	0.927	0.056	0.072	4.41	3.49
10	13.164	4.250	-1.230	0.953	998.9	1433.8	508.1	81.0	0.867	0.922	1.000	0.154	0.919	0.064	0.045	2.86	3.97
11	13.830	4.250	-1.230	0.954	1000.1	1433.4	508.6	80.9	0.879	0.932	1.000	0.135	0.930	0.057	0.025	1.54	3.48
12	14.496	4.250	-1.230	0.950	996.4	1432.7	506.3	81.0	0.898	0.954	0.999	0.092	0.952	0.045	0.016	0.99	2.70
13	15.162	4.250	-1.230	0.952	998.0	1432.6	507.1	81.1	0.922	0.973	1.000	0.053	0.972	0.035	0.016	0.96	2.07
14	15.828	4.250	-1.230	0.946	993.1	1432.2	504.2	81.0	0.944	0.999	1.000	0.004	0.998	0.028	0.021	1.22	1.60
15	16.494	4.250	-1.230	0.950	990.2	1432.8	506.2	81.0	0.986	1.032	1.000	-0.065	1.032	0.072	0.031	1.75	1.23
16	17.160	4.250	-1.230	0.954	999.9	1433.1	508.3	81.1	1.051	1.084	1.000	-0.168	1.083	0.021	0.053	2.79	1.13
17	17.826	4.250	-1.230	0.946	993.0	1432.4	504.2	81.1	0.974	1.025	1.000	-0.050	1.023	0.036	0.061	3.40	2.03
18	18.492	4.250	-1.230	0.950	995.9	1433.5	508.7	81.2	0.923	0.975	1.000	0.050	0.973	0.038	0.051	2.98	2.26
19	19.158	4.250	-1.230	0.951	997.6	1434.1	507.4	81.0	0.921	0.973	1.000	0.054	0.971	0.039	0.044	2.54	2.27
20	19.824	4.250	-1.230	0.951	997.6	1434.0	507.3	81.2	0.926	0.978	1.000	0.044	0.976	0.038	0.038	2.20	2.24

DATE 9-MAR-78 PROJECT NO P41C-N0C

APU, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMOLD AIR FORCE STATION, TENNESSEE

TEST PART RFX10-6 ALFA

TC-532 731 2.999 5.00

SURVEY ALFAS 5.01

CONFIG 21

904

DATE

2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	KL/VM	AAL	SKL
1	10.500	3.500	-2.730	0.949	995.4	1434.0	505.7	81.1	0.918	0.973	0.999	0.053	0.969	0.016	0.081	4.75	0.95
2	10.833	3.500	-2.730	0.949	995.5	1432.8	505.7	81.1	0.913	0.968	1.000	0.063	0.965	0.018	0.078	4.61	1.06
3	11.166	3.500	-2.730	0.949	995.9	1433.0	506.0	81.1	0.906	0.961	1.000	0.077	0.958	0.020	0.075	4.45	1.22
4	11.499	3.500	-2.730	0.950	996.3	1434.3	506.8	80.9	0.903	0.958	1.000	0.084	0.955	0.023	0.071	4.25	1.38
5	11.832	3.500	-2.730	0.950	996.3	1431.6	505.9	80.9	0.899	0.954	1.000	0.092	0.951	0.025	0.067	4.01	1.54
6	12.165	3.500	-2.730	0.951	997.4	1433.0	507.0	80.9	0.897	0.952	1.000	0.097	0.949	0.028	0.063	3.77	1.66
7	12.498	3.500	-2.730	0.952	998.1	1433.2	507.5	80.8	0.897	0.950	0.999	0.098	0.948	0.029	0.058	3.48	1.73
8	12.831	3.500	-2.730	0.953	999.4	1433.0	508.0	81.0	0.897	0.950	1.000	0.099	0.948	0.030	0.053	3.22	1.79
9	13.164	3.500	-2.730	0.953	999.5	1432.8	508.1	80.9	0.900	0.952	1.000	0.098	0.950	0.030	0.049	2.94	1.78
10	13.497	3.500	-2.730	0.955	1001.0	1433.1	509.0	81.0	0.903	0.953	1.000	0.092	0.952	0.029	0.045	2.71	1.77
11	13.830	3.500	-2.730	0.951	997.1	1432.4	506.5	81.0	0.907	0.960	1.001	0.081	0.959	0.028	0.042	2.44	1.70
12	14.163	3.500	-2.730	0.949	995.6	1434.0	506.3	81.0	0.910	0.965	1.000	0.069	0.964	0.027	0.040	2.35	1.61
13	14.496	3.500	-2.730	0.949	995.9	1432.0	505.7	81.1	0.916	0.970	1.001	0.061	0.969	0.026	0.038	2.25	1.52
14	14.829	3.500	-2.730	0.951	997.6	1434.7	507.6	81.1	0.925	0.977	1.000	0.047	0.976	0.024	0.037	2.18	1.44
15	15.162	3.500	-2.730	0.953	999.1	1433.2	507.8	81.2	0.932	0.982	1.000	0.036	0.981	0.023	0.037	2.15	1.34
16	15.495	3.500	-2.730	0.954	999.9	1432.8	508.3	81.0	0.941	0.988	1.000	0.024	0.987	0.022	0.036	2.11	1.25
17	15.828	3.500	-2.730	0.946	993.2	1433.7	504.9	80.9	0.947	1.001	1.000	-0.000	1.000	0.020	0.039	2.22	1.17
18	16.161	3.500	-2.730	0.948	994.7	1433.0	505.5	80.9	0.959	1.010	1.000	-0.019	1.009	0.020	0.041	2.31	1.12
19	16.494	3.500	-2.730	0.946	993.2	1432.6	504.6	80.8	0.967	1.019	1.000	-0.037	1.018	0.019	0.043	2.45	1.05
20	16.827	3.500	-2.730	0.948	994.2	1432.1	505.0	80.7	0.986	1.034	1.000	-0.068	1.033	0.018	0.048	2.65	1.01
21	17.160	3.500	-2.730	0.950	996.4	1432.7	506.4	80.8	1.010	1.052	1.000	-0.105	1.051	0.019	0.053	2.89	1.02
22	17.493	3.500	-2.730	0.952	997.9	1430.4	506.4	80.8	1.017	1.058	1.000	-0.115	1.056	0.021	0.058	3.17	1.05
23	17.826	3.500	-2.730	0.954	1000.0	1431.9	508.1	80.8	1.020	1.057	1.001	-0.113	1.055	0.024	0.062	3.45	1.11
24	18.159	3.500	-2.730	0.947	994.4	1431.4	504.6	80.8	0.957	1.009	1.000	-0.018	1.007	0.026	0.059	3.34	1.00
25	18.492	3.500	-2.730	0.950	996.3	1434.2	506.8	80.8	0.951	1.001	0.999	-0.003	0.999	0.027	0.056	3.22	1.04
26	18.825	3.500	-2.730	0.952	997.8	1431.7	506.8	80.8	0.942	0.992	1.000	0.017	0.990	0.027	0.054	3.14	1.04
27	19.158	3.500	-2.730	0.954	1000.3	1433.8	509.0	80.7	0.940	0.988	0.999	0.024	0.986	0.027	0.053	3.06	1.05
28	19.491	3.500	-2.730	0.946	992.9	1432.9	504.4	80.9	0.932	0.987	1.000	0.026	0.986	0.026	0.048	2.81	1.02

DATE 9-MAR-78 PROJECT #0 P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

IC-512 728 2.994 5.00 21 902 5.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ALL	SML
1	10.500	3.500	-1.980	0.946	993.2	1432.0	504.3	80.9	0.912	0.969	1.000	0.061	0.965	0.018	0.086	5.08	1.07
2	10.833	3.500	-1.980	0.947	994.0	1433.5	505.3	80.8	0.906	0.962	1.000	0.074	0.959	0.022	0.082	4.91	1.31
3	11.166	3.500	-1.980	0.948	995.1	1432.4	505.5	80.9	0.899	0.955	0.999	0.088	0.951	0.020	0.079	4.75	1.55
4	11.499	3.500	-1.980	0.948	995.2	1433.2	505.8	81.0	0.893	0.950	1.000	0.100	0.946	0.030	0.074	4.48	1.83
5	11.832	3.500	-1.980	0.949	996.1	1433.8	506.5	81.0	0.888	0.944	1.000	0.111	0.941	0.035	0.067	4.10	2.11
6	12.165	3.500	-1.980	0.950	996.9	1433.4	506.7	81.1	0.884	0.940	0.999	0.118	0.938	0.038	0.061	3.74	2.30
7	12.498	3.500	-1.980	0.950	996.7	1432.6	506.4	81.0	0.882	0.939	1.001	0.123	0.936	0.040	0.054	3.29	2.42
8	12.831	3.500	-1.980	0.952	998.4	1434.0	507.7	81.2	0.884	0.939	1.000	0.122	0.937	0.040	0.046	2.84	2.45
9	13.164	3.500	-1.980	0.952	998.5	1432.2	507.2	81.1	0.886	0.940	1.000	0.119	0.938	0.039	0.041	2.48	2.40
10	13.497	3.500	-1.980	0.953	999.5	1433.8	508.3	81.1	0.891	0.945	1.000	0.111	0.943	0.038	0.036	2.17	2.30
11	13.830	3.500	-1.980	0.952	998.7	1433.4	507.7	81.2	0.898	0.952	1.000	0.097	0.950	0.036	0.032	1.92	2.14

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALPHAS

TC-532 729 2.998 5.00 21 902 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
4	14.163	3.500	-1.980	0.950	996.5	1432.3	506.2	81.0	0.904	0.959	1.000	0.083	0.958	0.032	0.029	1.73	1.93
5	14.496	3.500	-1.980	0.951	997.7	1433.6	507.3	81.0	0.913	0.965	1.000	0.070	0.965	0.030	0.028	1.65	1.79
6	14.829	3.500	-1.980	0.953	999.3	1433.7	508.2	81.0	0.923	0.973	1.000	0.053	0.972	0.028	0.027	1.60	1.63
7	15.162	3.500	-1.980	0.951	997.2	1433.5	507.0	80.9	0.931	0.982	1.000	0.036	0.982	0.025	0.028	1.62	1.48
8	15.495	3.500	-1.980	0.953	999.2	1433.5	508.1	80.9	0.942	0.991	0.999	0.018	0.990	0.023	0.028	1.63	1.34
9	15.828	3.500	-1.980	0.954	999.8	1431.8	508.0	80.7	0.953	0.999	1.000	0.001	0.999	0.021	0.030	1.75	1.23
10	16.161	3.500	-1.980	0.953	999.2	1433.6	508.1	81.0	0.966	1.011	1.000	-0.023	1.011	0.020	0.034	1.91	1.14
11	16.494	3.500	-1.980	0.954	1000.1	1432.9	508.4	81.0	0.987	1.029	1.000	-0.059	1.029	0.018	0.038	2.12	1.02
12	16.827	3.500	-1.980	0.953	999.0	1433.1	507.9	81.0	1.013	1.053	1.000	-0.106	1.052	0.018	0.045	2.45	0.97
13	17.160	3.500	-1.980	0.952	998.3	1433.5	507.5	81.1	1.032	1.070	1.000	-0.140	1.068	0.019	0.052	2.81	1.04
14	17.493	3.500	-1.980	0.953	999.1	1434.0	508.3	80.9	1.034	1.071	1.000	-0.142	1.069	0.023	0.059	3.16	1.25
15	17.826	3.500	-1.980	0.952	998.5	1433.2	507.7	80.9	1.004	1.046	0.999	-0.092	1.043	0.028	0.060	3.10	1.54
16	18.159	3.500	-1.980	0.953	999.1	1432.3	507.7	80.9	0.969	1.014	1.000	-0.028	1.012	0.030	0.058	3.30	1.71
17	18.492	3.500	-1.980	0.954	999.9	1433.5	508.6	80.9	0.947	0.994	0.999	0.011	0.992	0.031	0.054	3.14	1.73
18	18.825	3.500	-1.980	0.950	997.0	1433.3	506.8	81.0	0.931	0.982	1.000	0.036	0.981	0.029	0.049	2.68	1.72
19	19.158	3.500	-1.980	0.953	999.1	1433.4	508.0	81.0	0.929	0.979	0.999	0.041	0.977	0.029	0.047	2.77	1.72
20	19.491	3.500	-1.980	0.952	998.7	1434.5	508.2	81.0	0.931	0.981	1.000	0.038	0.979	0.029	0.044	2.60	1.72

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIC

IC-512 730 2.948 5.00 21

DATE 2-22-78

DATE 2-22-78

SURVEY ALFAS 903 5.01

CONFIC

ALFA

5.00

21

CONFIC

ALFA

5.00

21

CONFIC

ALFA

5.00

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SKL
1	10.500	3.500	-1.230	0.952	998.5	1431.9	507.1	81.1	0.912	0.964	1.000	0.072	0.959	0.020	0.092	5.55	1.19
2	10.833	3.500	-1.230	0.952	998.8	1433.7	507.8	81.2	0.903	0.956	1.000	0.087	0.952	0.026	0.090	5.39	1.56
3	11.166	3.500	-1.230	0.953	999.6	1433.4	508.2	81.1	0.894	0.947	0.999	0.105	0.942	0.033	0.087	5.28	2.03
4	11.499	3.500	-1.230	0.951	997.7	1433.1	507.2	80.9	0.882	0.937	0.999	0.135	0.932	0.042	0.081	4.99	2.59
5	11.832	3.500	-1.230	0.952	998.7	1434.7	508.2	81.2	0.873	0.929	1.000	0.142	0.925	0.051	0.071	4.40	3.14
6	12.165	3.500	-1.230	0.953	999.5	1434.1	508.5	81.0	0.865	0.920	0.999	0.158	0.916	0.057	0.058	3.85	3.54
7	12.498	3.500	-1.230	0.954	999.9	1433.1	508.2	81.2	0.860	0.915	1.000	0.168	0.912	0.059	0.045	2.83	3.88
8	12.831	3.500	-1.230	0.952	998.6	1433.9	507.8	81.2	0.862	0.919	1.001	0.163	0.916	0.057	0.033	2.07	3.59
9	13.164	3.500	-1.230	0.952	998.4	1433.8	507.7	81.2	0.866	0.924	0.999	0.151	0.922	0.053	0.023	1.44	3.30
10	13.497	3.500	-1.230	0.952	998.3	1433.9	507.0	81.1	0.876	0.932	1.000	0.137	0.930	0.047	0.017	1.06	2.92
11	13.830	3.500	-1.230	0.953	999.5	1433.9	508.3	81.1	0.889	0.942	1.000	0.116	0.941	0.043	0.013	0.81	2.59
12	14.163	3.500	-1.230	0.948	994.8	1434.9	506.0	81.2	0.898	0.955	1.000	0.089	0.954	0.037	0.012	0.72	2.24
13	14.496	3.500	-1.230	0.943	995.3	1434.1	506.1	81.1	0.908	0.963	0.999	0.073	0.962	0.033	0.012	0.73	1.98
14	14.829	3.500	-1.230	0.949	995.4	1432.7	505.7	81.0	0.918	0.972	1.000	0.058	0.972	0.029	0.013	0.76	1.74
15	15.162	3.500	-1.230	0.951	997.7	1434.4	507.5	81.1	0.931	0.982	1.000	0.036	0.981	0.026	0.015	0.69	1.54
16	15.495	3.500	-1.230	0.952	998.7	1433.6	507.9	80.9	0.942	0.991	1.000	0.018	0.991	0.023	0.017	1.00	1.35
17	15.828	3.500	-1.230	0.951	997.8	1433.4	507.4	80.9	0.955	1.003	1.000	-0.006	1.003	0.021	0.021	1.20	1.20
18	16.161	3.500	-1.230	0.949	995.6	1434.1	506.4	80.9	0.968	1.017	0.999	-0.034	1.016	0.019	0.025	1.43	1.05
19	16.494	3.500	-1.230	0.950	996.6	1433.6	506.7	81.0	0.978	1.033	1.000	-0.056	1.042	0.017	0.033	1.50	0.93
20	16.827	3.500	-1.230	0.952	998.4	1433.5	507.6	81.1	0.993	1.043	1.000	-0.086	1.042	0.016	0.042	1.26	0.88
21	17.160	3.500	-1.230	0.954	999.7	1433.3	508.3	81.0	1.006	1.060	1.000	-0.100	1.079	0.019	0.052	1.02	0.88
22	17.493	3.500	-1.230	0.948	995.2	1432.7	505.6	80.9	1.033	1.074	1.000	-0.138	1.072	0.027	0.060	0.82	0.88
23	17.826	3.500	-1.230	0.951	997.6	1433.1	507.8	81.2	0.991	1.036	1.000	-0.071	1.033	0.031	0.059	0.75	1.47
24	18.159	3.500	-1.230	0.953	999.3	1433.9	508.2	81.1	0.946	0.994	0.999	0.010	0.992	0.032	0.055	0.67	1.87
25	18.492	3.500	-1.230	0.951	997.1	1432.3	506.5	81.0	0.923	0.976	1.000	0.049	0.974	0.032	0.049	0.67	1.87
26	18.825	3.500	-1.230	0.953	999.2	1434.4	508.4	81.1	0.919	0.970	1.000	0.060	0.968	0.032	0.045	0.64	1.69
27	19.158	3.500	-1.230	0.951	997.6	1432.9	507.0	81.0	0.920	0.972	1.000	0.056	0.971	0.032	0.041	0.64	1.87
28	19.491	3.500	-1.230	0.950	996.7	1434.0	506.8	81.1	0.920	0.973	0.999	0.052	0.972	0.031	0.037	0.64	1.87

DATE 9-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST FART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 732 3.001 5.00 21 905 5.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SXL
1	10.506	2.750	-1.230	0.950	996.4	1434.1	506.7	81.1	0.900	0.955	0.999	0.087	0.951	0.027	0.020	5.41	1.60
2	11.166	2.750	-1.230	0.950	996.8	1433.9	506.9	81.0	0.872	0.929	1.000	0.141	0.925	0.043	0.074	4.60	2.64
3	11.832	2.750	-1.230	0.952	998.4	1434.0	507.9	81.0	0.855	0.912	1.000	0.175	0.909	0.051	0.047	2.99	3.24
4	12.498	2.750	-1.230	0.954	1000.1	1433.8	508.7	81.1	0.861	0.916	1.000	0.168	0.914	0.047	0.024	1.49	2.54
6	13.164	2.750	-1.230	0.949	995.9	1433.7	506.4	80.9	0.876	0.934	0.999	0.131	0.933	0.037	0.012	0.72	2.28
7	13.830	2.750	-1.230	0.950	996.5	1431.3	505.9	80.9	0.897	0.952	1.001	0.097	0.951	0.029	0.010	0.59	1.76
8	14.496	2.750	-1.230	0.953	999.4	1433.0	508.0	81.0	0.917	0.968	1.000	0.064	0.968	0.024	0.011	0.67	1.40
9	15.162	2.750	-1.230	0.953	998.9	1432.9	507.7	81.0	0.938	0.987	1.000	0.027	0.987	0.020	0.016	0.92	1.14
10	15.828	2.750	-1.230	0.951	997.1	1432.9	506.8	80.8	0.962	1.010	1.000	-0.020	1.010	0.016	0.032	1.27	0.91
11	16.494	2.750	-1.230	0.949	995.1	1431.7	505.3	80.8	1.003	1.048	1.000	-0.096	1.047	0.015	0.035	1.94	0.82
12	17.160	2.750	-1.230	0.948	994.8	1431.9	505.2	80.8	1.035	1.076	1.000	-0.153	1.075	0.021	0.054	2.68	1.10
13	17.826	2.750	-1.230	0.949	995.1	1433.1	505.8	80.7	0.977	1.025	1.000	-0.050	1.023	0.028	0.057	3.17	1.59
14	18.492	2.750	-1.230	0.951	997.8	1434.0	507.5	80.9	0.925	0.976	1.000	0.046	0.975	0.028	0.047	2.78	1.62
15	19.158	2.750	-1.230	0.951	997.1	1433.1	506.9	80.9	0.922	0.975	1.000	0.051	0.973	0.026	0.040	2.35	1.55
16	19.824	2.750	-1.230	0.950	996.5	1432.9	506.5	80.8	0.925	0.978	1.000	0.044	0.977	0.025	0.034	2.01	1.49

DATE 9-MAR-78 PROJECT NO PAIC-NOC

APU, INC.

AEDC DIVISION

A SPEEDUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 733 2.995 5.00

SURVEY ALFAS

906 5.00

DATE

2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SAL
1	9.834	0.750	-2.208	0.947	993.9	1431.5	504.6	80.7	0.922	0.977	1.000	0.046	0.975	0.018	0.058	3.38	1.05
2	10.500	0.750	-2.208	0.948	995.2	1432.0	508.4	80.9	0.900	0.957	1.000	0.087	0.955	0.017	0.051	3.06	1.01
3	11.166	0.750	-2.208	0.950	996.4	1432.6	506.3	80.9	0.886	0.942	1.000	0.115	0.941	0.014	0.041	2.50	0.87
4	11.832	0.750	-2.208	0.950	997.0	1433.0	506.7	81.0	0.884	0.939	1.000	0.121	0.939	0.012	0.032	1.57	0.71
5	12.498	0.750	-2.208	0.952	998.7	1434.0	508.0	81.0	0.889	0.943	1.000	0.114	0.943	0.010	0.026	1.56	0.60
6	13.164	0.750	-2.208	0.953	999.1	1432.6	507.8	80.8	0.899	0.952	1.000	0.097	0.951	0.008	0.022	1.32	0.51
12	13.830	0.750	-2.208	0.947	994.2	1433.1	505.1	81.1	0.906	0.963	1.000	0.074	0.963	0.007	0.021	1.23	0.43
13	14.496	0.750	-2.208	0.950	995.8	1434.0	506.9	81.0	0.922	0.975	1.000	0.050	0.974	0.007	0.020	1.16	0.32
14	15.162	0.750	-2.208	0.953	998.8	1432.4	507.5	81.0	0.940	0.988	1.000	0.033	0.988	0.007	0.021	1.24	0.40
21	15.828	0.750	-2.208	0.947	994.5	1433.6	508.4	81.1	0.954	1.006	0.999	-0.013	1.006	0.007	0.025	1.42	0.41
22	16.494	0.750	-2.208	0.951	997.7	1432.5	506.9	81.0	0.983	1.028	1.000	-0.056	1.028	0.008	0.029	1.61	0.46
23	17.160	0.750	-2.208	0.954	999.9	1432.6	508.2	81.0	1.019	1.057	1.000	-0.114	1.056	0.012	0.035	1.91	0.53
24	17.826	0.750	-2.208	0.949	995.7	1433.2	506.0	81.1	0.969	1.018	1.000	-0.037	1.018	0.015	0.037	2.06	0.52
25	18.492	0.750	-2.208	0.949	996.0	1433.8	508.4	81.1	0.941	0.992	0.999	0.014	0.992	0.013	0.035	2.00	0.76
26	19.158	0.750	-2.208	0.948	995.2	1432.0	505.4	81.0	0.931	0.984	1.000	0.031	0.984	0.012	0.032	1.84	0.68
27	19.824	0.750	-2.208	0.953	999.3	1433.5	508.2	80.8	0.935	0.984	0.999	0.032	0.983	0.011	0.030	1.76	0.66

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 736 2.995 5.00 21 909 5.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4TDATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-3.708	0.946	993.0	1432.2	504.3	80.8	0.927	0.983	1.000	0.034	0.981	-0.003	0.067	3.90	-0.17
2	10.167	0.000	-3.708	0.947	993.9	1432.8	505.0	80.9	0.924	0.979	1.000	0.042	0.977	-0.003	0.065	3.83	-0.17
3	10.500	0.000	-3.708	0.948	994.8	1433.7	505.8	80.9	0.916	0.971	1.000	0.058	0.969	-0.003	0.063	3.72	-0.19
4	10.833	0.000	-3.708	0.948	995.0	1433.4	505.8	80.8	0.910	0.966	1.000	0.068	0.964	-0.002	0.060	3.56	-0.14
5	11.166	0.000	-3.708	0.947	993.9	1429.3	503.8	80.7	0.904	0.961	1.000	0.079	0.959	-0.003	0.057	3.41	-0.15
6	11.499	0.000	-3.708	0.950	995.2	1433.9	506.6	80.9	0.902	0.957	1.000	0.085	0.956	-0.002	0.054	3.24	-0.12
7	11.832	0.000	-3.708	0.950	996.4	1432.5	506.3	80.9	0.901	0.956	1.000	0.087	0.955	-0.002	0.051	3.06	-0.14
8	12.165	0.000	-3.708	0.950	996.7	1432.9	506.6	80.9	0.900	0.955	1.000	0.089	0.954	-0.002	0.048	2.87	-0.14
9	12.498	0.000	-3.708	0.951	997.4	1432.5	506.9	80.8	0.902	0.956	1.000	0.088	0.955	-0.002	0.045	2.72	-0.14
10	12.831	0.000	-3.708	0.951	997.6	1431.5	506.6	80.8	0.904	0.958	1.000	0.085	0.957	-0.003	0.043	2.58	-0.15
11	13.164	0.000	-3.708	0.953	998.9	1432.3	507.7	80.7	0.908	0.960	1.000	0.083	0.959	-0.002	0.041	2.45	-0.14
12	13.497	0.000	-3.708	0.953	999.3	1432.5	508.0	80.7	0.911	0.962	1.000	0.076	0.961	-0.003	0.040	2.34	-0.16
13	13.830	0.000	-3.708	0.949	996.0	1431.5	505.7	80.8	0.913	0.968	1.000	0.065	0.967	-0.002	0.039	2.29	-0.14
14	14.163	0.000	-3.708	0.950	996.6	1432.9	506.6	80.7	0.917	0.971	1.000	0.058	0.970	-0.002	0.038	2.24	-0.14
15	14.496	0.000	-3.708	0.948	994.7	1431.3	505.0	80.7	0.921	0.976	0.999	0.047	0.975	-0.003	0.037	2.15	-0.16
16	14.829	0.000	-3.708	0.948	994.5	1430.5	504.6	80.7	0.927	0.981	1.001	0.039	0.980	-0.003	0.037	2.15	-0.16
17	15.162	0.000	-3.708	0.951	996.9	1431.8	506.3	80.8	0.936	0.987	1.000	0.027	0.986	-0.002	0.037	2.14	-0.14
18	15.495	0.000	-3.708	0.952	998.2	1431.3	506.9	80.7	0.944	0.993	1.000	0.015	0.992	-0.002	0.037	2.16	-0.13
19	15.828	0.000	-3.708	0.954	1000.2	1432.0	508.3	80.7	0.952	0.998	1.000	0.003	0.998	-0.003	0.034	2.10	-0.15
20	16.161	0.000	-3.708	0.946	992.8	1432.1	504.2	80.8	0.953	1.006	1.000	-0.013	1.006	-0.002	0.031	2.33	-0.12
21	16.494	0.000	-3.708	0.947	994.2	1433.3	505.3	80.9	0.963	1.014	1.000	-0.028	1.013	-0.002	0.033	2.42	-0.12
22	16.827	0.000	-3.708	0.950	996.3	1433.2	506.4	80.9	0.974	1.021	1.000	-0.043	1.020	-0.002	0.044	2.49	-0.14
23	17.160	0.000	-3.708	0.953	999.0	1434.1	508.2	80.9	0.986	1.029	0.999	-0.059	1.028	-0.002	0.046	2.58	-0.12
24	17.493	0.000	-3.708	0.955	1000.8	1433.3	509.0	80.9	0.991	1.032	0.999	-0.064	1.030	-0.002	0.048	2.66	-0.10
25	17.826	0.000	-3.708	0.947	993.7	1434.0	505.2	81.0	0.960	1.012	1.000	-0.024	1.011	-0.002	0.048	2.74	-0.10
26	18.159	0.000	-3.708	0.946	995.1	1433.5	505.8	81.0	0.954	1.005	0.999	-0.011	1.004	-0.001	0.048	2.72	-0.09
27	18.492	0.000	-3.708	0.950	996.9	1433.3	506.7	81.1	0.951	1.000	1.000	-0.000	0.999	-0.002	0.047	2.70	-0.09
28	18.825	0.000	-3.708	0.953	999.4	1433.6	508.2	81.0	0.950	0.997	1.000	0.005	0.996	-0.001	0.046	2.67	-0.08
29	19.158	0.000	-3.708	0.948	995.1	1433.7	505.9	80.9	0.940	0.992	0.999	0.014	0.991	-0.002	0.045	2.50	-0.09
30	19.491	0.000	-3.708	0.949	996.0	1432.2	505.9	80.8	0.938	0.990	1.000	0.021	0.989	-0.002	0.044	2.53	-0.09

DATE 9-MAR-78 PROJECT NO P41C-MOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 734 2.947 5.00 21 907 5.01

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

DATE

2-22-78

POINT	X	Y	Z	M	VN	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-2.958	0.948	994.6	1432.0	505.2	80.7	0.926	0.980	1.000	0.040	0.978	-0.002	0.059	3.47	-0.10
2	10.167	0.000	-2.958	0.949	995.8	1433.4	506.3	80.8	0.918	0.972	0.999	0.055	0.970	-0.002	0.059	3.48	-0.14
3	10.500	0.000	-2.958	0.950	995.9	1430.7	505.4	80.7	0.908	0.963	1.000	0.074	0.961	-0.002	0.057	3.48	-0.15
4	10.833	0.000	-2.958	0.950	996.0	1432.2	506.0	80.7	0.902	0.957	1.000	0.086	0.956	-0.002	0.053	3.16	-0.13
5	11.166	0.000	-2.958	0.951	997.7	1433.7	507.4	80.9	0.897	0.951	0.999	0.096	0.950	-0.002	0.049	2.96	-0.14
6	11.499	0.000	-2.958	0.951	997.6	1433.5	507.2	80.9	0.894	0.949	1.000	0.101	0.948	-0.002	0.046	2.75	-0.15
7	11.832	0.000	-2.958	0.951	996.9	1431.6	506.3	80.7	0.892	0.947	1.000	0.105	0.947	-0.002	0.042	2.54	-0.15
8	12.165	0.000	-2.958	0.952	998.2	1432.4	507.3	80.8	0.894	0.948	1.000	0.104	0.947	-0.002	0.039	2.35	-0.14
9	12.498	0.000	-2.958	0.953	998.9	1432.5	507.6	80.9	0.897	0.949	1.000	0.100	0.949	-0.002	0.036	2.18	-0.14
10	12.831	0.000	-2.958	0.952	998.6	1432.3	507.4	80.9	0.898	0.951	1.000	0.097	0.951	-0.002	0.034	2.07	-0.13
11	13.164	0.000	-2.958	0.946	993.1	1432.9	504.6	80.8	0.899	0.957	1.000	0.086	0.956	-0.002	0.032	1.93	-0.11
12	13.497	0.000	-2.958	0.948	994.3	1432.3	505.1	80.8	0.904	0.951	1.000	0.078	0.960	-0.002	0.031	1.83	-0.12
13	13.830	0.000	-2.958	0.949	995.9	1433.2	506.3	80.8	0.910	0.964	1.000	0.071	0.964	-0.002	0.030	1.81	-0.12
14	14.163	0.000	-2.958	0.950	996.4	1430.7	505.7	80.7	0.915	0.968	1.000	0.063	0.968	-0.002	0.030	1.78	-0.11
15	14.496	0.000	-2.958	0.952	998.0	1432.3	507.1	80.8	0.923	0.975	1.000	0.051	0.974	-0.002	0.029	1.72	-0.13
16	14.829	0.000	-2.958	0.953	998.9	1431.4	507.3	80.7	0.930	0.979	1.000	0.041	0.979	-0.002	0.028	1.67	-0.13
17	15.162	0.000	-2.958	0.955	1000.5	1432.4	508.6	80.7	0.939	0.986	1.000	0.028	0.985	-0.002	0.029	1.59	-0.12
18	15.495	0.000	-2.958	0.948	994.6	1432.1	505.2	80.7	0.943	0.996	0.999	0.008	0.995	-0.002	0.031	1.77	-0.14
19	15.828	0.000	-2.958	0.949	995.3	1431.1	505.2	80.8	0.948	1.000	1.000	0.001	0.999	-0.002	0.032	1.83	-0.13
20	16.161	0.000	-2.958	0.951	997.0	1431.6	506.4	80.7	0.963	1.021	1.000	-0.021	1.010	-0.002	0.034	1.90	-0.12
21	16.494	0.000	-2.958	0.953	999.0	1432.0	507.6	80.7	0.976	1.021	1.000	-0.041	1.020	-0.002	0.035	1.97	-0.13
22	16.827	0.000	-2.958	0.949	995.5	1432.2	505.7	80.8	0.982	1.029	1.000	-0.060	1.029	-0.002	0.038	2.11	-0.11
23	17.160	0.000	-2.958	0.949	995.9	1431.8	505.8	80.8	0.987	1.033	1.000	-0.066	1.033	-0.002	0.041	2.27	-0.11
24	17.493	0.000	-2.958	0.953	998.9	1433.9	508.1	80.9	0.992	1.034	1.000	-0.069	1.033	-0.002	0.042	2.32	-0.09
25	17.826	0.000	-2.958	0.951	997.9	1433.2	507.3	81.0	0.973	1.019	0.999	-0.039	1.018	-0.001	0.043	2.42	-0.06
26	18.159	0.000	-2.958	0.953	999.2	1432.4	507.9	80.8	0.963	1.009	1.000	-0.017	1.008	-0.001	0.042	2.40	-0.05
27	18.492	0.000	-2.958	0.952	998.3	1433.7	507.7	80.9	0.951	0.999	0.999	0.001	0.998	-0.001	0.040	2.32	-0.04
28	18.825	0.000	-2.958	0.954	999.6	1432.5	508.1	80.8	0.946	0.993	0.999	0.013	0.992	-0.001	0.039	2.27	-0.06
29	19.158	0.000	-2.958	0.946	993.2	1432.5	504.5	80.9	0.933	0.988	1.000	0.023	0.987	-0.001	0.037	2.16	-0.05
30	19.491	0.000	-2.958	0.949	995.6	1434.4	506.4	81.0	0.935	0.988	0.999	0.024	0.987	-0.001	0.035	2.09	-0.05

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARKOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 735 2.998 5.00 21

SURVEY ALFAS
908 5.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL/L	SWL
1	9.834	0.000	-2.208	0.949	995.9	1431.3	506.1	81.1	0.920	0.974	1.000	0.052	0.973	-0.003	0.047	2.78	-0.16
2	10.167	0.000	-2.208	0.950	996.5	1431.3	505.8	81.0	0.910	0.964	1.000	0.073	0.963	-0.002	0.045	2.69	-0.14
3	10.500	0.000	-2.208	0.951	997.0	1431.6	506.3	80.8	0.901	0.955	1.000	0.089	0.954	-0.003	0.042	2.54	-0.16
4	10.833	0.000	-2.208	0.951	997.5	1432.3	506.8	80.8	0.893	0.948	1.000	0.104	0.947	-0.003	0.039	2.35	-0.17
5	11.166	0.000	-2.208	0.952	998.4	1432.4	507.4	80.8	0.888	0.942	1.000	0.114	0.942	-0.003	0.035	2.14	-0.19
6	11.499	0.000	-2.208	0.953	999.3	1434.3	508.5	80.9	0.886	0.940	0.999	0.119	0.939	-0.003	0.032	1.93	-0.19
7	11.832	0.000	-2.208	0.951	997.7	1433.9	507.4	81.0	0.884	0.940	1.000	0.120	0.939	-0.003	0.028	1.72	-0.17
8	12.165	0.000	-2.208	0.952	998.4	1433.4	507.7	80.8	0.886	0.940	1.000	0.119	0.940	-0.003	0.026	1.56	-0.16
9	12.498	0.000	-2.208	0.945	992.3	1431.2	503.6	80.8	0.885	0.945	1.000	0.110	0.945	-0.003	0.024	1.44	-0.18
10	12.831	0.000	-2.208	0.946	992.4	1430.8	503.5	80.7	0.889	0.949	1.000	0.102	0.949	-0.002	0.022	1.30	-0.13
11	13.164	0.000	-2.208	0.947	993.8	1432.3	504.8	80.7	0.895	0.953	1.000	0.094	0.952	-0.002	0.020	1.21	-0.15
12	13.497	0.000	-2.208	0.947	993.8	1430.8	504.3	80.7	0.901	0.958	1.000	0.085	0.958	-0.002	0.019	1.16	-0.11
13	13.830	0.000	-2.208	0.949	995.8	1433.2	506.2	80.9	0.907	0.962	1.000	0.075	0.962	-0.002	0.019	1.11	-0.13
14	14.163	0.000	-2.208	0.950	996.6	1431.7	506.2	80.7	0.913	0.967	1.000	0.066	0.967	-0.002	0.018	1.07	-0.10
15	14.496	0.000	-2.208	0.952	997.7	1431.6	506.8	80.7	0.922	0.973	1.000	0.053	0.973	-0.002	0.017	1.03	-0.11
16	14.829	0.000	-2.208	0.954	999.6	1432.0	508.0	80.7	0.930	0.979	0.999	0.041	0.979	-0.002	0.016	1.05	-0.11
17	15.162	0.000	-2.208	0.948	994.5	1431.4	504.9	80.7	0.938	0.991	1.000	0.018	0.991	-0.002	0.019	1.10	-0.11
18	15.495	0.000	-2.208	0.947	993.6	1433.1	504.9	80.9	0.943	0.997	1.000	0.006	0.997	-0.002	0.020	1.16	-0.09
19	15.828	0.000	-2.208	0.948	994.8	1432.8	505.5	80.9	0.953	1.005	1.000	-0.009	1.005	-0.002	0.022	1.26	-0.10
20	16.161	0.000	-2.208	0.950	996.5	1432.8	506.3	81.0	0.966	1.015	1.000	-0.029	1.014	-0.002	0.024	1.34	-0.11
21	16.494	0.000	-2.208	0.952	998.1	1432.8	507.2	81.0	0.982	1.027	1.000	-0.033	1.026	-0.002	0.025	1.41	-0.12
22	16.827	0.000	-2.208	0.948	994.4	1432.5	505.1	80.9	0.989	1.037	1.000	-0.074	1.036	-0.002	0.028	1.54	-0.11
23	17.160	0.000	-2.208	0.949	995.4	1430.7	505.2	80.7	0.994	1.040	1.000	-0.040	1.039	-0.002	0.030	1.67	-0.10
24	17.493	0.000	-2.208	0.952	997.8	1433.0	507.3	80.7	0.993	1.037	0.999	-0.075	1.036	-0.001	0.031	1.72	-0.05
25	17.826	0.000	-2.208	0.953	999.4	1432.7	508.1	80.7	0.985	1.027	1.000	-0.055	1.027	-0.001	0.032	1.77	-0.05
26	18.159	0.000	-2.208	0.948	994.2	1431.6	504.8	80.7	0.950	1.002	1.000	-0.004	1.002	-0.000	0.031	1.75	-0.02
27	18.492	0.000	-2.208	0.950	996.2	1431.4	505.8	80.8	0.944	0.995	1.000	0.011	0.994	-0.000	0.030	1.71	-0.02
28	18.825	0.000	-2.208	0.952	998.0	1432.3	507.2	80.7	0.941	0.991	1.000	0.019	0.990	-0.000	0.028	1.64	-0.02
29	19.158	0.000	-2.208	0.954	1000.4	1432.1	508.3	80.9	0.938	0.985	1.000	0.029	0.985	-0.000	0.028	1.63	-0.02
30	19.491	0.000	-2.208	0.947	994.2	1431.3	504.6	80.8	0.929	0.983	1.000	0.033	0.983	-0.000	0.026	1.53	-0.02

DATE 9-MAR-78 PROJECT NO P41C-NDC

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 737 3.001 5.00 910 5.00

DATE 2-23-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VVL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ASL	SWL
1	9.834	-0.750	-2.208	0.950	996.2	1434.1	506.7	81.0	0.923	0.976	0.999	0.047	0.974	-0.023	0.059	3.46	-1.37
2	11.167	-0.750	-2.208	0.952	998.0	1433.6	507.5	81.0	0.887	0.941	1.000	0.116	0.940	-0.020	0.042	2.56	-1.23
3	12.500	-0.750	-2.208	0.954	1000.4	1433.4	508.7	81.1	0.889	0.941	1.000	0.117	0.941	-0.015	0.026	1.60	-0.90
5	13.633	-0.750	-2.208	0.947	993.3	1430.8	504.0	80.7	0.905	0.963	1.000	0.074	0.962	-0.012	0.021	1.26	-0.69
6	15.166	-0.750	-2.208	0.952	998.4	1433.0	507.6	80.8	0.939	0.988	0.999	0.022	0.988	-0.010	0.021	1.23	-0.60
7	16.499	-0.750	-2.208	0.948	994.8	1433.5	505.7	80.9	0.979	1.028	0.999	-0.056	1.027	-0.013	0.029	1.54	-0.73
9	17.832	-0.750	-2.208	0.947	993.8	1433.3	505.0	81.0	0.958	1.010	1.000	-0.020	1.009	-0.016	0.035	2.00	-0.91
11	19.165	-0.750	-2.208	0.952	998.0	1433.9	507.6	81.0	0.937	0.987	0.999	0.024	0.987	-0.013	0.031	1.80	-0.75
12	20.498	-0.750	-2.208	0.952	996.6	1432.6	507.5	80.9	0.940	0.989	1.000	0.021	0.989	-0.012	0.028	1.62	-0.68

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REAL-6 ALFA CONFIG SURVEY ALFAS
TC-532 738 2.999 5.00 21 911 5.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	-2.750	-1.230	0.949	995.7	1432.8	506.0	80.9	0.898	0.954	0.999	0.090	0.949	-0.032	0.032	5.56	-1.93
2	11.833	-2.750	-1.230	0.952	998.7	1433.3	507.7	81.1	0.851	0.908	0.999	0.182	0.904	-0.037	0.049	3.10	-3.58
3	13.166	-2.750	-1.230	0.953	999.2	1433.1	508.0	81.0	0.875	0.930	1.000	0.140	0.929	-0.041	0.013	0.78	-2.50
5	14.499	-2.750	-1.230	0.949	995.6	1430.6	505.2	80.7	0.913	0.967	1.000	0.066	0.967	-0.026	0.011	0.65	-1.53
7	15.832	-2.750	-1.230	0.950	996.7	1433.6	506.8	80.9	0.960	1.009	1.000	-0.017	1.008	-0.020	0.023	1.29	-1.14
10	17.165	-2.750	-1.230	0.947	993.6	1433.3	505.0	80.9	1.027	1.071	1.000	-0.142	1.069	-0.027	0.034	2.91	-1.45
11	18.498	-2.750	-1.230	0.955	1000.6	1432.8	505.8	80.8	0.924	0.973	0.999	0.054	0.971	-0.030	0.042	2.49	-1.60
13	19.831	-2.750	-1.230	0.948	993.7	1434.2	505.9	80.9	0.923	0.978	0.999	0.044	0.977	-0.027	0.028	1.64	-1.61

DATE 9-WAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS
TC-532 747 2.996 0.00 21 901 0.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
10	10.500	4.250	-1.230	1.049	1083.7	1399.2	537.1	82.6	1.116	1.052	0.998	-0.106	1.052	-0.001	0.001	0.03	-0.09
11	11.166	4.250	-1.230	1.049	1083.9	1399.6	537.4	82.4	1.078	1.022	0.999	-0.046	1.032	0.009	-0.006	-0.32	0.49
12	11.832	4.250	-1.230	1.051	1085.7	1400.2	538.4	82.4	1.049	0.998	0.999	0.003	0.998	0.018	-0.013	-0.77	1.06
13	12.498	4.250	-1.230	1.052	1086.0	1400.2	538.6	82.3	1.049	0.998	1.000	0.003	0.998	0.020	-0.023	-1.32	1.17
14	13.164	4.250	-1.230	1.054	1087.8	1400.1	539.3	82.4	1.056	1.002	1.000	-0.004	1.001	0.015	-0.032	-1.53	0.54
15	13.830	4.250	-1.230	1.052	1086.2	1399.9	538.6	82.4	1.072	1.016	0.999	-0.032	1.015	0.001	-0.033	-1.84	0.04
16	14.496	4.250	-1.230	1.052	1086.6	1400.0	538.8	82.3	1.104	1.040	0.998	-0.082	1.040	-0.007	-0.022	-1.21	-0.40
17	15.162	4.250	-1.230	1.054	1087.6	1399.5	539.1	82.1	1.126	1.055	0.998	-0.113	1.055	-0.011	-0.010	-0.58	-0.60
18	15.828	4.250	-1.230	1.050	1084.6	1398.8	537.5	82.2	1.147	1.074	0.997	-0.151	1.074	-0.015	0.006	0.30	-0.79
19	16.494	4.250	-1.230	1.052	1086.0	1398.0	537.8	82.2	1.159	1.082	0.995	-0.167	1.081	-0.014	0.014	0.75	-0.76
20	17.160	4.250	-1.230	1.049	1083.9	1399.5	537.4	82.3	1.184	1.101	0.994	-0.207	1.101	-0.021	0.036	1.85	-1.11
21	17.826	4.250	-1.230	1.051	1085.5	1399.1	538.0	82.2	1.231	1.134	0.991	-0.273	1.131	-0.026	0.071	3.59	-1.12
22	18.492	4.250	-1.230	1.053	1087.4	1399.2	538.9	82.2	1.188	1.101	0.985	-0.216	1.101	-0.005	0.028	1.45	-0.54
23	19.158	4.250	-1.230	1.048	1082.8	1398.1	536.4	82.2	0.986	0.951	0.994	0.090	0.950	-0.005	0.002	0.13	-0.32
24	19.824	4.250	-1.230	1.050	1084.4	1398.0	537.2	82.0	1.023	0.978	0.996	0.038	0.978	-0.007	0.005	0.29	-0.52

DATE 9-MAR-78 PROJECT NO P4IC-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART WEX10-6 ALFA

CONFIC 21

SURVEY ALFAS

904 0.01

DATE

2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	1.046	1080.0	1396.2	534.8	81.4	1.120	1.058	0.997	-0.118	1.058	-0.002	0.000	0.03	-0.10
2	10.833	3.500	-2.730	1.047	1080.8	1397.1	535.5	81.4	1.119	1.055	0.997	-0.114	1.055	-0.001	-0.001	-0.04	-0.06
3	11.166	3.500	-2.730	1.048	1081.6	1397.1	535.9	81.4	1.103	1.043	0.997	-0.088	1.042	0.002	-0.006	-0.32	0.12
4	11.499	3.500	-2.730	1.047	1081.2	1394.6	534.8	81.2	1.074	1.021	0.998	-0.044	1.021	0.005	-0.013	-0.71	0.31
5	11.832	3.500	-2.730	1.048	1081.6	1394.0	535.2	81.2	1.057	1.008	0.998	-0.018	1.007	0.007	-0.017	-0.95	0.49
6	12.165	3.500	-2.730	1.048	1081.8	1395.8	535.9	81.4	1.061	1.011	1.000	-0.022	1.010	0.007	-0.019	-1.69	0.41
7	12.498	3.500	-2.730	1.049	1082.6	1396.3	536.0	81.4	1.062	1.010	0.999	-0.022	1.010	0.006	-0.020	-1.16	0.36
8	12.831	3.500	-2.730	1.050	1083.7	1397.0	536.9	81.4	1.065	1.012	0.999	-0.025	1.012	0.006	-0.021	-1.21	0.32
9	13.164	3.500	-2.730	1.050	1083.5	1396.9	536.3	81.4	1.070	1.015	1.000	-0.031	1.015	0.004	-0.021	-1.21	0.22
10	13.497	3.500	-2.730	1.051	1084.7	1396.7	537.1	81.4	1.076	1.020	0.999	-0.041	1.019	0.002	-0.021	-1.19	0.13
11	13.830	3.500	-2.730	1.052	1085.5	1397.2	537.6	81.4	1.084	1.025	0.999	-0.051	1.025	0.001	-0.020	-1.14	0.05
12	14.163	3.500	-2.730	1.052	1085.6	1396.4	537.4	81.4	1.092	1.031	0.999	-0.063	1.031	-0.001	-0.019	-1.03	-0.06
13	14.496	3.500	-2.730	1.054	1086.7	1396.5	537.9	81.4	1.098	1.034	0.998	-0.070	1.034	-0.002	-0.016	-0.89	-0.12
14	14.829	3.500	-2.730	1.047	1081.1	1396.9	535.6	81.4	1.097	1.039	0.998	-0.079	1.039	-0.002	-0.014	-0.75	-0.11
15	15.162	3.500	-2.730	1.047	1081.0	1396.5	535.4	81.3	1.106	1.046	0.999	-0.093	1.046	-0.003	-0.016	-0.56	-0.16
16	15.495	3.500	-2.730	1.049	1082.6	1396.8	536.2	81.4	1.114	1.050	0.998	-0.102	1.050	-0.004	-0.008	-0.42	-0.23
17	15.828	3.500	-2.730	1.051	1084.1	1398.0	537.4	81.4	1.121	1.054	0.997	-0.111	1.054	-0.006	-0.004	-0.23	-0.30
18	16.161	3.500	-2.730	1.051	1084.4	1396.8	537.2	81.5	1.132	1.061	0.998	-0.124	1.061	-0.007	0.001	0.05	-0.35
19	16.494	3.500	-2.730	1.053	1086.1	1397.9	538.1	81.5	1.138	1.065	0.997	-0.133	1.065	-0.006	0.005	0.29	-0.30
20	16.827	3.500	-2.730	1.052	1085.3	1396.9	537.4	81.4	1.140	1.067	0.996	-0.138	1.067	-0.005	0.009	0.98	-0.28
21	17.160	3.500	-2.730	1.049	1083.2	1396.1	536.2	81.4	1.132	1.063	0.997	-0.129	1.063	-0.011	0.016	0.88	-0.57
22	17.493	3.500	-2.730	1.050	1083.7	1395.5	536.2	81.4	1.143	1.071	0.997	-0.144	1.070	-0.011	0.022	1.19	-0.58
23	17.826	3.500	-2.730	1.052	1085.0	1395.6	536.8	81.4	1.153	1.077	0.996	-0.158	1.077	-0.013	0.031	1.67	-0.70
24	18.159	3.500	-2.730	1.053	1086.4	1396.0	537.6	81.4	1.168	1.087	0.995	-0.178	1.086	-0.013	0.040	2.13	-0.71
25	18.492	3.500	-2.730	1.049	1082.4	1396.9	536.2	81.3	1.178	1.098	0.994	-0.201	1.097	-0.016	0.052	2.73	-0.84
26	18.825	3.500	-2.730	1.050	1083.7	1397.6	537.0	81.4	1.195	1.110	0.993	-0.225	1.108	-0.013	0.062	3.21	-0.69
27	19.158	3.500	-2.730	1.050	1084.0	1396.0	536.6	81.3	1.133	1.063	0.991	-0.136	1.063	-0.004	0.024	1.31	-0.21
28	19.491	3.500	-2.730	1.052	1085.4	1395.6	537.0	81.4	1.006	0.964	0.991	0.060	0.964	-0.004	0.005	0.33	-0.25

DATE 9-24-78 PROJECT NO P41C-NOC

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA

TC-532 748 2498 0.00 21

CONFIG SURVEY ALFAS

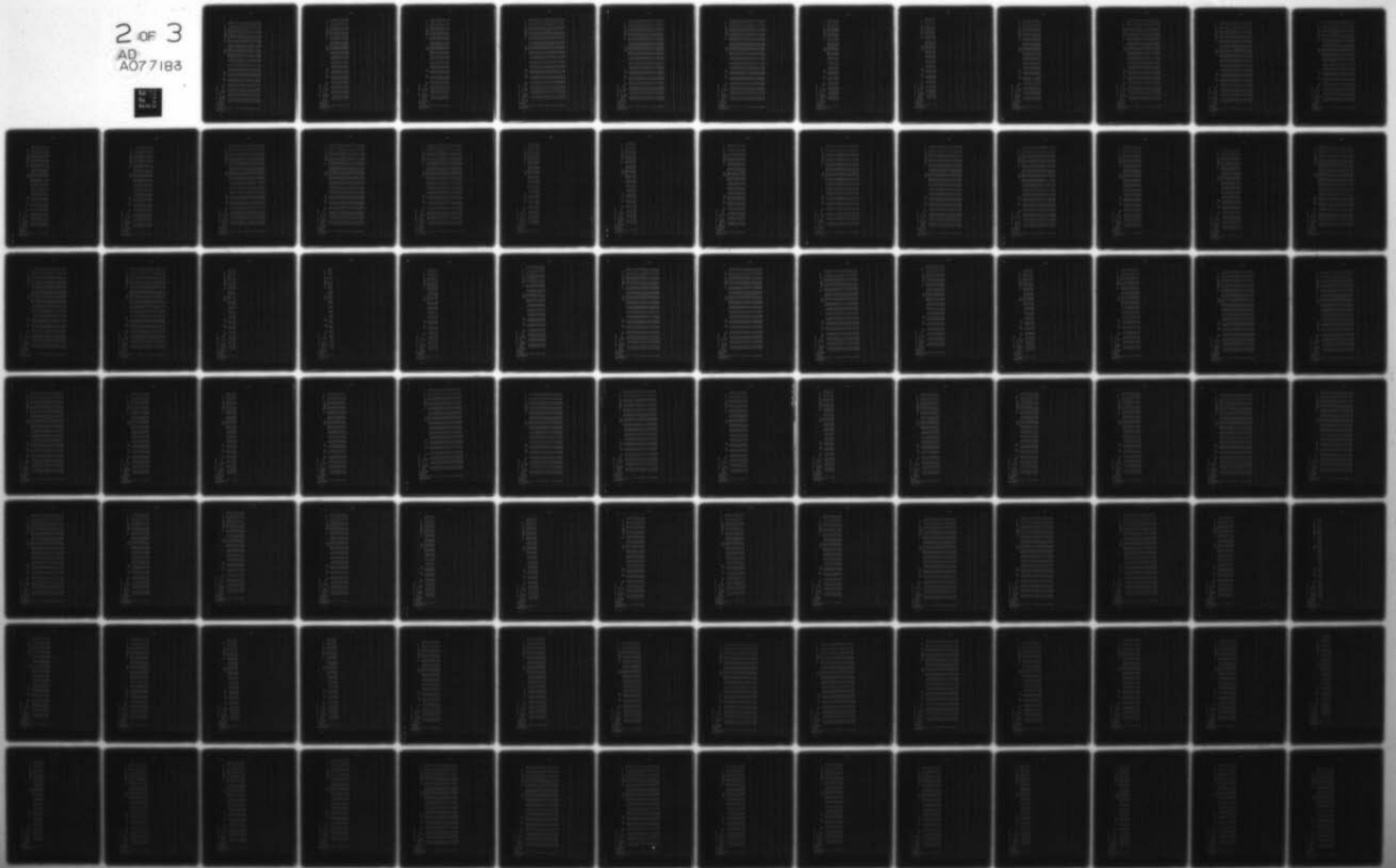
DATE 2-22-78

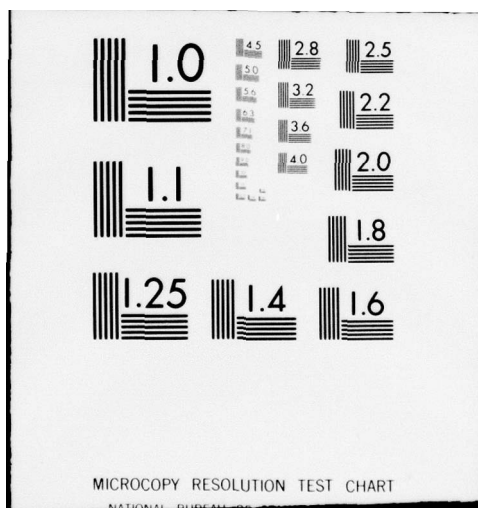
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ME	VVL/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	3.500	-1.980	1.047	1081.5	1398.7	536.2	82.0	1.119	1.055	0.997	-0.114	1.055	-0.001	0.000	0.001	-0.06
2	10.833	3.500	-1.980	1.046	1081.3	1397.5	535.6	82.0	1.107	1.047	0.998	-0.096	1.047	0.002	-0.004	-0.21	0.09
3	11.166	3.500	-1.980	1.048	1082.4	1398.6	536.6	82.0	1.075	1.021	0.997	-0.045	1.021	0.007	-0.010	-0.58	0.42
4	11.499	3.500	-1.980	1.048	1083.0	1399.3	537.0	82.1	1.052	1.003	0.999	-0.008	1.003	0.011	-0.016	-0.92	0.52
5	11.832	3.500	-1.980	1.049	1083.4	1399.6	537.3	82.0	1.053	1.004	0.999	-0.008	1.003	0.012	-0.020	-1.15	0.57
6	12.165	3.500	-1.980	1.048	1082.8	1398.4	536.7	82.0	1.053	1.004	1.000	-0.007	1.003	0.011	-0.023	-1.31	0.51
7	12.498	3.500	-1.980	1.050	1084.3	1399.2	537.6	82.0	1.057	1.006	0.999	-0.012	1.005	0.009	-0.025	-1.42	0.50
8	12.831	3.500	-1.980	1.050	1084.6	1399.1	537.3	82.0	1.059	1.007	0.999	-0.016	1.007	0.006	-0.026	-1.47	0.33
9	13.164	3.500	-1.980	1.051	1085.1	1398.7	537.8	82.0	1.067	1.013	0.999	-0.027	1.012	0.004	-0.026	-1.46	0.50
10	13.497	3.500	-1.980	1.052	1085.9	1398.2	538.0	81.9	1.080	1.022	0.999	-0.045	1.022	0.001	-0.024	-1.33	0.03
11	13.830	3.500	-1.980	1.052	1085.8	1398.7	537.5	81.7	1.090	1.029	0.999	-0.060	1.029	-0.002	-0.022	-1.20	-0.09
12	14.163	3.500	-1.980	1.051	1085.0	1398.6	537.7	81.9	1.098	1.036	0.998	-0.075	1.036	-0.004	-0.019	-1.05	-0.22
13	14.496	3.500	-1.980	1.051	1085.0	1398.6	537.7	82.0	1.104	1.041	0.998	-0.084	1.041	-0.005	-0.016	-0.87	-0.26
14	14.829	3.500	-1.980	1.052	1085.8	1399.4	538.3	82.0	1.113	1.047	0.998	-0.096	1.047	-0.006	-0.012	-0.66	-0.30
15	15.162	3.500	-1.980	1.052	1086.3	1398.0	538.1	81.9	1.119	1.051	0.998	-0.104	1.051	-0.007	-0.008	-0.44	-0.37
16	15.495	3.500	-1.980	1.054	1087.6	1399.1	539.1	81.8	1.127	1.055	0.997	-0.113	1.055	-0.008	-0.004	-0.20	-0.46
17	15.828	3.500	-1.980	1.052	1085.4	1398.5	537.9	81.8	1.135	1.064	0.997	-0.130	1.064	-0.009	0.002	0.11	-0.42
18	16.161	3.500	-1.980	1.052	1086.0	1397.5	537.8	81.9	1.144	1.070	0.997	-0.142	1.070	-0.009	0.007	0.35	-0.46
19	16.494	3.500	-1.980	1.052	1086.0	1397.4	537.7	81.9	1.149	1.074	0.997	-0.150	1.074	-0.008	0.010	0.52	-0.45
20	16.827	3.500	-1.980	1.052	1086.9	1399.1	538.3	81.9	1.154	1.077	0.996	-0.158	1.077	-0.008	0.015	0.78	-0.44
21	17.160	3.500	-1.980	1.053	1086.5	1398.1	538.2	81.9	1.163	1.084	0.995	-0.171	1.083	-0.009	0.023	1.24	-0.48
22	17.493	3.500	-1.980	1.051	1084.8	1397.3	537.2	81.7	1.172	1.092	0.994	-0.188	1.091	-0.013	0.034	1.81	-0.66
23	17.826	3.500	-1.980	1.052	1085.3	1395.8	536.9	81.7	1.186	1.103	0.994	-0.210	1.101	-0.014	0.047	2.42	-0.72
24	18.159	3.500	-1.980	1.053	1086.5	1396.9	537.8	81.7	1.209	1.116	0.993	-0.238	1.115	-0.014	0.058	2.97	-0.70
25	18.492	3.500	-1.980	1.052	1085.7	1397.9	537.8	81.8	1.211	1.119	0.991	-0.245	1.117	-0.016	0.072	3.70	-0.81
26	18.825	3.500	-1.980	1.053	1086.6	1397.1	538.0	81.7	1.148	1.072	0.990	-0.155	1.072	-0.001	0.027	1.42	-0.06
27	19.158	3.500	-1.980	1.046	1080.7	1395.2	534.6	81.7	0.965	0.936	0.993	0.119	0.935	0.001	0.007	0.44	0.06
28	19.491	3.500	-1.980	1.046	1084.3	1397.7	536.1	81.7	0.986	0.951	0.995	0.092	0.951	-0.001	0.003	0.18	-0.07

AD-A077 183 NIELSEN ENGINEERING AND RESEARCH INC MOUNTAIN VIEW CALIF F/G 20/4
DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS A--ETC(U)
MAY 78 S S STAHARA, A J CRISALLI F44620-75-C-0047
UNCLASSIFIED NEAR-TR-163-VOL-2 AFOSR-TR-79-1071 N/L

2 OF 3
AD
A077183





DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION, COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 739 2.896 0.00 21 903 0.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	N	VM	PT	O	TT	ML	VML/VM	PT/PT	CPL	UL/VM	VL/VM	WL/VM	ANL	SWL
1	10.500	3.500	-1.230	1.048	1082.6	1396.0	535.8	81.7	1.107	1.045	0.998	-0.093	1.045	0.001	-0.002	-0.08	0.05
2	10.833	3.500	-1.230	1.050	1083.7	1396.1	536.3	81.7	1.075	1.020	0.998	-0.041	1.020	0.009	-0.006	-0.34	0.48
3	11.166	3.500	-1.230	1.051	1084.5	1396.7	536.9	81.7	1.050	0.999	0.998	-0.001	0.999	0.014	-0.011	-0.62	0.82
4	11.499	3.500	-1.230	1.051	1084.8	1397.2	537.2	81.7	1.042	0.993	0.999	0.012	0.993	0.019	-0.016	-0.93	1.07
5	11.832	3.500	-1.230	1.052	1085.9	1397.8	537.9	81.6	1.042	0.992	0.999	0.014	0.992	0.020	-0.021	-1.24	1.16
6	12.165	3.500	-1.230	1.052	1085.3	1395.4	536.8	81.5	1.042	0.992	1.000	0.015	0.992	0.019	-0.027	-1.59	1.11
7	12.499	3.500	-1.230	1.053	1086.5	1397.4	538.1	81.6	1.045	0.994	0.999	0.011	0.993	0.016	-0.032	-1.85	0.91
8	12.831	3.500	-1.230	1.053	1085.0	1396.7	537.1	81.6	1.048	0.998	0.999	0.004	0.997	0.010	-0.036	-2.04	0.57
9	13.164	3.500	-1.230	1.052	1085.5	1397.4	537.6	81.7	1.057	1.004	0.999	-0.010	1.003	0.004	-0.036	-2.05	0.25
10	13.497	3.500	-1.230	1.053	1086.2	1397.5	538.0	81.5	1.066	1.010	0.999	-0.021	1.009	-0.001	-0.033	-1.50	-0.07
11	13.830	3.500	-1.230	1.055	1087.6	1397.5	538.7	81.4	1.081	1.021	0.998	-0.043	1.020	-0.005	-0.029	-1.64	-0.29
12	14.163	3.500	-1.230	1.049	1083.0	1397.0	536.4	81.6	1.089	1.031	0.998	-0.065	1.031	-0.007	-0.024	-1.33	-0.39
13	14.496	3.500	-1.230	1.050	1084.1	1396.3	536.6	81.6	1.100	1.038	0.997	-0.079	1.038	-0.008	-0.019	-1.04	-0.43
14	14.829	3.500	-1.230	1.050	1084.0	1396.3	536.5	81.7	1.114	1.049	0.998	-0.100	1.049	-0.009	-0.014	-0.74	-0.50
15	15.162	3.500	-1.230	1.051	1085.0	1396.2	537.0	81.6	1.126	1.057	0.997	-0.117	1.057	-0.011	-0.006	-0.35	-0.50
16	15.495	3.500	-1.230	1.052	1085.8	1396.9	537.7	81.4	1.141	1.067	0.997	-0.138	1.067	-0.012	0.002	0.12	-0.67
17	15.828	3.500	-1.230	1.054	1087.0	1397.3	538.3	81.6	1.151	1.073	0.996	-0.150	1.073	-0.012	0.008	0.41	-0.82
18	16.161	3.500	-1.230	1.050	1083.6	1396.5	536.4	81.6	1.151	1.077	0.996	-0.171	1.077	-0.011	0.012	0.63	-0.56
19	16.494	3.500	-1.230	1.051	1084.3	1397.6	537.3	81.4	1.161	1.083	0.995	-0.171	1.083	-0.012	0.018	0.97	-0.53
20	16.827	3.500	-1.230	1.052	1085.3	1397.0	537.5	81.5	1.177	1.094	0.995	-0.192	1.094	-0.013	0.028	1.46	-0.98
21	17.160	3.500	-1.230	1.052	1085.7	1397.8	537.9	81.6	1.196	1.108	0.993	-0.221	1.107	-0.014	0.041	2.14	-0.73
22	17.493	3.500	-1.230	1.052	1085.3	1397.4	537.7	81.4	1.216	1.122	0.992	-0.250	1.121	-0.017	0.058	2.95	-0.85
23	17.826	3.500	-1.230	1.053	1086.1	1397.4	538.0	81.5	1.233	1.134	0.989	-0.274	1.131	-0.014	0.072	3.66	-0.70
24	18.159	3.500	-1.230	1.053	1086.2	1394.8	537.0	81.4	1.242	1.140	0.988	-0.288	1.137	-0.014	0.081	4.05	-0.70
25	18.492	3.500	-1.230	1.049	1082.9	1396.1	536.1	81.4	1.070	1.016	0.989	-0.267	1.016	0.000	0.014	0.81	0.03
26	18.825	3.500	-1.230	1.051	1084.2	1396.5	536.8	81.4	0.985	0.948	0.990	0.091	0.948	0.001	0.006	0.36	0.07
27	19.158	3.500	-1.230	1.051	1084.9	1396.0	536.9	81.4	1.031	0.984	0.996	0.027	0.984	-0.001	0.002	0.14	-0.04
28	19.491	3.500	-1.230	1.053	1086.3	1395.9	537.5	81.4	1.045	0.994	0.998	0.010	0.994	-0.004	0.002	0.10	-0.21

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 AIFA

TC-532 751 3.001 0.00 21 CONFIG SURVEY ALFAS 905 0.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	1.050	1083.4	1397.0	536.7	81.4	1.083	1.026	0.958	-0.055	1.026	0.006	-0.006	-0.32	0.33
2	11.160	2.750	-1.230	1.050	1083.8	1396.5	536.6	81.4	1.038	0.990	0.998	0.017	0.990	0.015	-0.019	-1.07	0.90
3	11.832	2.750	-1.230	1.051	1084.8	1395.7	536.8	81.4	1.040	0.991	0.999	0.018	0.990	0.015	-0.031	-1.79	0.86
4	12.498	2.750	-1.230	1.053	1086.4	1396.1	537.6	81.4	1.043	0.992	0.999	0.014	0.991	0.007	-0.036	-2.10	0.38
5	13.164	2.750	-1.230	1.051	1084.8	1397.6	537.5	81.4	1.050	0.999	0.998	0.001	0.998	-0.002	-0.033	-1.92	-0.13
6	13.830	2.750	-1.230	1.052	1085.7	1394.9	536.8	81.4	1.069	1.013	0.998	-0.028	1.013	-0.005	-0.026	-1.65	-0.26
7	14.496	2.750	-1.230	1.054	1087.1	1395.6	537.7	81.4	1.102	1.037	0.998	-0.075	1.036	-0.005	-0.017	-0.92	-0.30
8	15.162	2.750	-1.230	1.051	1084.5	1397.2	537.2	81.4	1.122	1.054	0.997	-0.112	1.054	-0.008	-0.005	-0.26	-0.42
9	15.828	2.750	-1.230	1.050	1083.8	1396.8	536.8	81.4	1.141	1.069	0.996	-0.142	1.069	-0.008	0.003	0.45	-0.40
10	16.494	2.750	-1.230	1.052	1085.3	1395.4	536.9	81.4	1.163	1.084	0.995	-0.171	1.084	-0.008	0.024	1.24	-0.43
11	17.160	2.750	-1.230	1.053	1085.8	1395.5	537.2	81.3	1.197	1.108	0.994	-0.221	1.107	-0.009	0.047	2.41	-0.44
12	17.826	2.750	-1.230	1.049	1082.6	1397.8	536.6	81.4	1.214	1.124	0.989	-0.256	1.122	-0.009	0.074	3.77	-0.47
13	18.492	2.750	-1.230	1.050	1084.0	1395.8	536.5	81.3	1.045	0.996	0.988	-0.007	0.996	0.005	0.011	0.65	0.31
14	19.158	2.750	-1.230	1.053	1086.2	1396.5	537.7	81.3	1.049	0.997	0.997	0.003	0.997	0.002	0.001	0.07	0.09
16	19.824	2.750	-1.230	1.053	1085.8	1395.9	537.3	81.3	1.042	0.992	0.997	0.013	0.992	-0.002	0.004	0.31	-0.14

DATE 9-MAR-78 PROJECT NO P41C-NOC

APQ, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

TC-532 752 3.000 0.00 21 906 0.01

AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VM/VW	PTL/PT	CPL	UL/VW	VL/VW	WL/VW	AAL	SXL
1	9.834	0.750	-2.208	1.048	1081.7	1397.0	535.9	81.3	1.092	1.035	0.997	-0.072	1.035	0.000	-0.007	-0.37	0.01
2	10.500	0.750	-2.208	1.050	1081.9	1396.6	536.8	81.3	1.076	1.020	0.998	-0.042	1.020	-0.001	-0.009	-0.51	-0.04
3	11.166	0.750	-2.208	1.052	1084.8	1395.5	536.8	81.2	1.058	1.005	0.998	-0.012	1.005	-0.004	-0.015	-0.85	-0.22
4	11.832	0.750	-2.208	1.052	1085.1	1396.5	537.2	81.3	1.061	1.007	0.998	-0.017	1.007	-0.005	-0.018	-1.04	-0.28
5	12.498	0.750	-2.208	1.051	1084.3	1397.9	537.4	81.4	1.068	1.013	0.998	-0.028	1.013	-0.004	-0.019	-1.05	-0.23
6	13.164	0.750	-2.208	1.051	1084.5	1395.7	536.7	81.2	1.073	1.017	0.998	-0.036	1.017	-0.003	-0.017	-0.56	-0.19
7	13.830	0.750	-2.208	1.053	1086.5	1395.8	537.6	81.3	1.081	1.021	0.998	-0.045	1.021	-0.003	-0.016	-0.90	-0.15
8	14.496	0.750	-2.208	1.051	1084.4	1394.5	536.2	81.2	1.065	1.027	0.999	-0.056	1.027	-0.002	-0.013	-0.73	-0.10
9	15.162	0.750	-2.208	1.051	1084.1	1394.3	535.9	81.3	1.094	1.034	0.997	-0.070	1.034	0.000	-0.009	-0.49	0.02
10	15.828	0.750	-2.208	1.050	1083.6	1395.7	536.3	81.3	1.110	1.046	0.997	-0.095	1.046	0.002	-0.005	-0.26	0.09
11	16.494	0.750	-2.208	1.052	1084.9	1395.2	536.8	81.1	1.120	1.052	0.997	-0.109	1.052	0.004	0.002	0.12	0.23
12	17.160	0.750	-2.208	1.047	1081.1	1396.1	535.5	80.9	1.141	1.072	0.996	-0.147	1.072	0.005	0.010	0.55	0.25
13	17.826	0.750	-2.208	1.049	1082.9	1394.9	535.8	81.0	1.172	1.093	0.995	-0.189	1.092	0.006	0.015	1.31	0.33
14	18.492	0.750	-2.208	1.052	1085.3	1395.3	537.0	81.1	1.189	1.103	0.993	-0.211	1.102	0.008	0.022	1.68	0.43
15	19.158	0.750	-2.208	1.050	1083.3	1394.0	535.8	80.7	1.017	0.973	0.994	0.044	0.973	0.002	0.004	0.25	0.13
16	19.824	0.750	-2.208	1.050	1083.6	1394.2	535.8	81.0	1.038	0.991	0.999	0.017	0.991	0.000	0.003	0.18	0.02

DATE 9-MAR-78 PROJECT NO P41C-N0C

APG, INC.

AEDC DIVISION

A STEADROP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 755 3.000 0.000 21

SURVEY ALFAS

909 0.002

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	W	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	KL/VM	ACL	SWL
1	9.834	0.000	-3.708	1.047	1080.4	1395.6	535.0	80.8	1.121	1.057	0.996	-0.118	1.057	-0.001	0.003	0.14	-0.05
2	10.167	0.000	-3.708	1.047	1080.5	1395.3	535.0	80.7	1.116	1.053	0.997	-0.109	1.053	-0.001	0.002	0.09	-0.07
3	10.500	0.000	-3.708	1.049	1082.3	1396.2	536.0	81.0	1.113	1.049	0.997	-0.101	1.049	-0.001	0.000	0.00	-0.06
4	10.833	0.000	-3.708	1.049	1082.5	1395.6	536.0	80.9	1.110	1.047	0.997	-0.096	1.047	-0.001	-0.002	-0.09	-0.04
5	11.166	0.000	-3.708	1.049	1082.5	1395.1	535.7	80.9	1.102	1.041	0.998	-0.084	1.041	-0.001	-0.005	-0.30	-0.06
6	11.499	0.000	-3.708	1.049	1082.5	1395.3	535.9	81.0	1.082	1.025	0.998	-0.053	1.025	-0.002	-0.011	-0.60	-0.10
7	11.832	0.000	-3.708	1.050	1083.5	1395.5	536.3	81.0	1.066	1.012	0.998	-0.028	1.012	-0.002	-0.015	-0.82	-0.13
8	12.165	0.000	-3.708	1.051	1084.3	1394.6	536.4	80.8	1.066	1.012	0.998	-0.026	1.011	-0.002	-0.016	-0.92	-0.09
9	12.498	0.000	-3.708	1.051	1084.4	1394.7	536.4	81.0	1.070	1.014	0.998	-0.031	1.014	-0.001	-0.016	-0.93	-0.08
10	12.831	0.000	-3.708	1.051	1084.4	1393.7	536.0	80.9	1.074	1.017	0.999	-0.036	1.017	-0.002	-0.016	-0.92	-0.09
11	13.164	0.000	-3.708	1.053	1085.8	1395.7	537.3	81.0	1.080	1.021	0.998	-0.044	1.021	-0.002	-0.016	-0.90	-0.09
12	13.497	0.000	-3.708	1.050	1083.3	1394.7	535.9	80.9	1.078	1.022	0.998	-0.046	1.021	-0.001	-0.015	-0.84	-0.06
13	13.830	0.000	-3.708	1.051	1083.9	1394.6	536.1	81.0	1.081	1.023	0.998	-0.049	1.023	-0.001	-0.014	-0.78	-0.05
14	14.163	0.000	-3.708	1.052	1084.7	1394.1	536.3	81.0	1.086	1.027	0.998	-0.056	1.027	-0.001	-0.013	-0.72	-0.04
15	14.496	0.000	-3.708	1.051	1083.6	1395.1	536.3	80.8	1.091	1.031	0.998	-0.064	1.031	-0.000	-0.012	-0.65	-0.00
16	14.829	0.000	-3.708	1.051	1084.0	1396.0	536.8	80.9	1.098	1.036	0.998	-0.074	1.036	-0.000	-0.010	-0.57	-0.02
17	15.162	0.000	-3.708	1.050	1083.4	1393.9	535.7	80.9	1.101	1.039	0.999	-0.073	1.039	-0.000	-0.009	-0.47	-0.01
18	15.495	0.000	-3.708	1.051	1083.5	1393.6	535.7	80.8	1.102	1.040	0.998	-0.081	1.040	-0.000	-0.006	-0.34	-0.00
19	15.828	0.000	-3.708	1.052	1085.0	1394.8	536.8	80.8	1.106	1.041	0.998	-0.084	1.041	-0.000	-0.003	-0.18	-0.00
20	16.161	0.000	-3.708	1.050	1083.2	1395.5	536.2	80.9	1.113	1.049	0.998	-0.099	1.049	-0.001	-0.000	-0.03	-0.03
21	16.494	0.000	-3.708	1.052	1084.6	1394.3	536.4	80.9	1.121	1.053	0.998	-0.107	1.053	-0.000	0.003	0.14	-0.00
22	16.827	0.000	-3.708	1.052	1084.8	1392.7	535.9	80.7	1.127	1.057	0.998	-0.116	1.057	-0.000	0.005	0.26	-0.00
23	17.160	0.000	-3.708	1.051	1084.3	1395.2	536.9	80.9	1.133	1.063	0.997	-0.128	1.063	-0.000	0.006	0.31	0.01
24	17.493	0.000	-3.708	1.052	1085.2	1394.9	536.9	80.8	1.141	1.067	0.997	-0.137	1.067	-0.001	0.010	0.55	-0.03
25	17.826	0.000	-3.708	1.051	1083.8	1393.3	535.7	80.7	1.146	1.072	0.996	-0.148	1.072	-0.000	0.014	0.77	-0.02
26	18.159	0.000	-3.708	1.052	1085.0	1393.5	536.3	80.8	1.152	1.076	0.996	-0.155	1.076	-0.001	0.019	1.03	-0.06
27	18.492	0.000	-3.708	1.052	1085.0	1390.0	536.9	80.8	1.162	1.083	0.995	-0.170	1.083	-0.001	0.024	1.30	-0.06
28	18.825	0.000	-3.708	1.050	1083.4	1395.0	536.1	80.8	1.147	1.074	0.996	-0.150	1.073	-0.002	0.040	2.12	-0.08
29	19.158	0.000	-3.708	1.051	1084.2	1393.5	535.9	80.7	1.157	1.080	0.996	-0.163	1.079	-0.001	0.044	2.35	-0.05
30	19.491	0.000	-3.708	1.048	1081.2	1394.1	534.8	80.7	1.066	1.014	0.995	-0.034	1.014	-0.001	0.014	0.78	0.07

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

APACHE AIR FORCE STATION, TENNESSEE

TEST PART REX10-0 ALFA CONFIG SURVEY ALFAS

TC-532 753 2.999 0.00 21 907 0.01

DATE
2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VM/VL	PT/PT	CPL	UL/VM	VL/VM	WL/VM	AIL	SWI
1	9.834	0.000	-2.958	1.049	1082.8	1395.6	535.9	81.2	1.109	1.046	0.997	-0.095	1.046	-0.001	0.000	0.02	-0.04
2	10.167	0.000	-2.958	1.049	1082.5	1394.5	535.4	81.2	1.102	1.041	0.998	-0.084	1.041	-0.001	0.001	0.04	-0.05
3	10.500	0.000	-2.958	1.050	1083.6	1394.8	536.0	81.2	1.096	1.035	0.997	-0.073	1.035	-0.001	0.003	0.15	-0.04
4	10.833	0.000	-2.958	1.050	1083.5	1394.6	535.9	81.1	1.082	1.025	0.998	-0.052	1.025	-0.001	0.007	0.41	-0.03
5	11.166	0.000	-2.958	1.051	1084.5	1394.8	536.4	81.2	1.064	1.010	0.998	-0.031	1.010	-0.002	0.011	0.65	-0.11
6	11.499	0.000	-2.958	1.051	1084.2	1394.8	536.3	81.1	1.054	1.003	0.998	-0.008	1.003	-0.002	0.015	0.85	-0.11
7	11.832	0.000	-2.958	1.050	1083.4	1395.2	536.2	80.8	1.056	1.005	0.998	-0.012	1.005	-0.002	0.017	0.97	-0.10
8	12.165	0.000	-2.958	1.051	1084.2	1395.9	536.6	80.8	1.059	1.006	0.998	-0.014	1.006	-0.002	0.017	0.97	-0.11
9	12.498	0.000	-2.958	1.052	1084.8	1394.6	536.6	80.8	1.062	1.008	0.999	-0.018	1.008	-0.002	0.017	0.98	-0.09
10	12.831	0.000	-2.958	1.052	1085.2	1395.8	537.2	80.9	1.067	1.011	0.998	-0.025	1.011	-0.001	0.017	0.98	-0.06
11	13.164	0.000	-2.958	1.049	1082.3	1394.4	535.3	81.0	1.067	1.015	0.998	-0.031	1.014	-0.001	0.016	0.93	-0.06
12	13.497	0.000	-2.958	1.050	1083.3	1396.2	536.4	81.1	1.074	1.019	0.998	-0.039	1.019	-0.001	0.016	0.89	-0.06
13	13.830	0.000	-2.958	1.051	1084.3	1396.2	537.0	80.9	1.079	1.021	0.998	-0.045	1.021	-0.001	0.015	0.82	-0.04
14	14.163	0.000	-2.958	1.052	1084.4	1395.6	536.8	80.8	1.089	1.029	0.999	-0.059	1.029	-0.001	0.013	0.71	-0.05
15	14.496	0.000	-2.958	1.049	1082.9	1395.8	536.1	81.1	1.089	1.030	0.998	-0.063	1.030	-0.001	0.011	0.60	-0.04
16	14.829	0.000	-2.958	1.051	1083.6	1395.0	536.2	80.8	1.094	1.034	0.998	-0.070	1.034	-0.000	0.009	0.52	-0.00
17	15.162	0.000	-2.958	1.051	1084.2	1394.7	536.3	81.0	1.103	1.040	0.998	-0.082	1.040	-0.000	0.007	0.40	-0.02
18	15.495	0.000	-2.958	1.052	1085.1	1393.9	536.4	80.9	1.111	1.045	0.998	-0.092	1.045	-0.001	0.005	0.25	-0.04
19	15.828	0.000	-2.958	1.050	1083.5	1395.5	536.3	80.9	1.115	1.050	0.998	-0.102	1.050	0.000	0.001	0.04	0.00
20	16.161	0.000	-2.958	1.051	1084.5	1396.0	536.9	81.0	1.121	1.053	0.997	-0.109	1.053	0.000	0.001	0.13	0.02
21	16.494	0.000	-2.958	1.051	1084.4	1396.4	537.0	81.0	1.128	1.059	0.997	-0.120	1.059	0.000	0.006	0.31	0.02
22	16.827	0.000	-2.958	1.051	1084.1	1395.8	536.7	81.0	1.133	1.063	0.997	-0.128	1.063	0.000	0.008	0.52	0.02
23	17.160	0.000	-2.958	1.052	1084.9	1395.9	537.1	80.9	1.141	1.068	0.996	-0.139	1.059	-0.000	0.012	0.82	-0.02
24	17.493	0.000	-2.958	1.054	1086.9	1395.9	537.9	81.1	1.150	1.072	0.996	-0.148	1.072	-0.001	0.015	0.82	-0.05
25	17.826	0.000	-2.958	1.046	1079.6	1395.2	534.5	80.9	1.158	1.063	0.997	-0.129	1.063	-0.002	0.030	1.60	-0.11
26	18.159	0.000	-2.958	1.048	1081.8	1396.3	535.8	81.0	1.138	1.069	0.995	-0.142	1.068	-0.003	0.036	1.94	-0.14
27	18.492	0.000	-2.958	1.049	1082.8	1396.2	536.3	81.0	1.151	1.077	0.994	-0.159	1.076	-0.002	0.041	2.18	-0.12
28	18.825	0.000	-2.958	1.050	1083.4	1395.6	536.3	81.0	1.161	1.084	0.994	-0.173	1.083	-0.002	0.046	2.42	-0.12
29	19.158	0.000	-2.958	1.052	1084.6	1395.4	536.8	80.9	1.149	1.074	0.993	-0.155	1.074	0.000	0.037	1.97	0.01
30	19.491	0.000	-2.958	1.051	1084.1	1395.7	536.6	81.1	1.018	0.975	0.994	0.043	0.975	0.002	0.008	0.45	0.13

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART 9EX10-6 ALFA

CONFIG 21

SURVEY ALFAS 908

PT 0.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL/VM	SAL
1	9.834	0.000	-2.208	1.04M	1082.1	1395.8	535.7	81.1	1.087	1.030	0.998	-0.063	1.030	-0.001	-0.007	-0.37	-0.08
2	10.167	0.000	-2.208	1.050	1083.7	1396.8	536.8	81.1	1.083	1.025	0.997	-0.054	1.025	-0.001	-0.007	-0.39	-0.08
3	10.500	0.000	-2.208	1.050	1082.9	1395.7	536.1	81.0	1.079	1.023	0.998	-0.048	1.023	-0.002	-0.008	-0.45	-0.09
4	10.833	0.000	-2.208	1.050	1083.6	1394.3	535.9	80.9	1.073	1.017	0.998	-0.037	1.017	-0.002	-0.010	-0.58	-0.12
5	11.166	0.000	-2.208	1.051	1084.2	1394.8	536.4	80.9	1.063	1.009	0.998	-0.021	1.009	-0.003	-0.012	-0.68	-0.15
6	11.499	0.000	-2.208	1.052	1084.8	1394.2	536.4	80.9	1.050	1.007	0.999	-0.015	1.006	-0.003	-0.013	-0.74	-0.15
7	11.832	0.000	-2.208	1.052	1085.1	1395.2	536.9	80.9	1.066	1.010	0.998	-0.023	1.010	-0.003	-0.014	-0.80	-0.15
8	12.165	0.000	-2.208	1.052	1085.3	1395.2	537.0	81.0	1.066	1.011	0.998	-0.023	1.010	-0.002	-0.014	-0.80	-0.12
9	12.498	0.000	-2.208	1.053	1085.5	1395.7	537.3	80.9	1.072	1.015	0.998	-0.033	1.015	-0.002	-0.015	-0.83	-0.12
10	12.831	0.000	-2.208	1.050	1083.3	1395.1	536.0	81.0	1.073	1.018	0.998	-0.038	1.018	-0.001	-0.015	-0.83	-0.07
11	13.164	0.000	-2.208	1.050	1083.4	1394.5	535.8	81.1	1.077	1.021	0.999	-0.043	1.021	-0.001	-0.015	-0.82	-0.08
12	13.497	0.000	-2.208	1.052	1084.8	1394.3	536.4	80.9	1.082	1.023	0.998	-0.048	1.023	-0.001	-0.014	-0.77	-0.06
13	13.830	0.000	-2.208	1.052	1085.0	1394.3	536.5	81.0	1.084	1.025	0.998	-0.051	1.025	-0.001	-0.013	-0.75	-0.07
14	14.163	0.000	-2.208	1.053	1086.0	1395.1	537.2	81.0	1.090	1.029	0.998	-0.059	1.029	-0.001	-0.012	-0.69	-0.05
15	14.496	0.000	-2.208	1.048	1080.2	1396.1	535.0	81.1	1.085	1.030	0.998	-0.062	1.030	-0.001	-0.010	-0.57	-0.04
16	14.829	0.000	-2.208	1.048	1081.6	1396.0	535.6	81.0	1.090	1.033	0.998	-0.068	1.033	-0.001	-0.010	-0.53	-0.05
17	15.162	0.000	-2.208	1.049	1081.8	1395.0	535.4	80.9	1.096	1.037	0.998	-0.076	1.037	-0.000	-0.008	-0.43	-0.01
18	15.495	0.000	-2.208	1.050	1083.3	1395.8	536.3	81.1	1.104	1.041	0.998	-0.085	1.041	0.000	-0.007	-0.40	0.02
19	15.828	0.000	-2.208	1.051	1084.5	1396.3	537.0	81.0	1.107	1.043	0.997	-0.089	1.043	0.001	-0.006	-0.33	0.03
20	16.161	0.000	-2.208	1.046	1080.3	1395.9	535.0	81.0	1.112	1.050	0.997	-0.104	1.050	0.001	-0.005	-0.25	0.06
21	16.494	0.000	-2.208	1.047	1080.7	1395.0	534.9	81.0	1.114	1.051	0.997	-0.106	1.051	0.001	-0.003	-0.16	0.05
22	16.827	0.000	-2.208	1.048	1082.0	1396.2	535.9	81.0	1.123	1.058	0.996	-0.119	1.058	0.001	0.000	0.01	0.08
23	17.160	0.000	-2.208	1.050	1083.2	1396.0	536.4	81.0	1.133	1.063	0.996	-0.130	1.063	0.001	0.003	0.17	0.05
24	17.493	0.000	-2.208	1.052	1084.7	1396.6	537.2	81.1	1.143	1.069	0.996	-0.143	1.069	0.001	0.006	0.33	0.04
25	17.826	0.000	-2.208	1.052	1084.9	1395.9	537.1	81.0	1.157	1.080	0.995	-0.165	1.080	0.001	0.012	0.61	0.06
26	18.159	0.000	-2.208	1.053	1085.6	1393.9	536.5	81.1	1.170	1.088	0.994	-0.182	1.088	0.001	0.017	0.90	0.03
27	18.492	0.000	-2.208	1.054	1086.3	1393.4	536.8	80.9	1.177	1.093	0.994	-0.191	1.093	-0.000	0.019	1.02	-0.01
28	18.825	0.000	-2.208	1.050	1083.2	1395.7	536.3	80.9	1.114	1.049	0.992	-0.108	1.049	-0.000	0.008	0.45	-0.01
29	19.158	0.000	-2.208	1.051	1084.1	1396.2	536.9	80.9	1.051	1.000	0.992	-0.011	1.000	0.002	0.000	0.01	0.14
30	19.491	0.000	-2.208	1.050	1082.9	1394.4	535.6	80.9	1.045	0.996	0.997	0.004	0.996	0.002	0.005	0.26	0.13

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART HX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 756 2.998 0.00 21 910 0.02

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	1.051	1083.7	1392.8	535.5	80.7	1.082	1.024	0.998	-0.051	1.024	-0.003	-0.006	-0.35	-0.16
2	11.167	-0.750	-2.208	1.052	1084.7	1394.8	536.7	80.8	1.058	1.005	0.998	-0.012	1.005	-0.001	-0.014	-0.79	-0.06
3	12.500	-0.750	-2.208	1.054	1086.4	1395.4	537.6	80.8	1.066	1.009	0.999	-0.020	1.009	0.001	-0.017	-0.97	0.04
4	13.833	-0.750	-2.208	1.053	1085.3	1393.4	536.3	80.9	1.083	1.024	0.999	-0.048	1.023	0.001	-0.015	-0.65	0.02
5	15.166	-0.750	-2.208	1.051	1083.8	1393.6	535.8	80.7	1.095	1.034	0.998	-0.070	1.034	-0.001	-0.009	-0.51	-0.05
6	16.499	-0.750	-2.208	1.050	1083.4	1393.9	535.7	80.7	1.117	1.051	0.996	-0.107	1.051	-0.003	0.000	0.02	-0.17
7	17.832	-0.750	-2.208	1.054	1086.6	1393.4	537.0	80.7	1.169	1.086	0.994	-0.178	1.086	-0.008	0.023	1.21	-0.41
8	19.165	-0.750	-2.208	1.054	1086.5	1395.2	537.6	80.8	1.109	1.042	0.992	-0.094	1.042	0.001	-0.004	-0.24	0.03
9	20.498	-0.750	-2.208	1.054	1086.0	1393.7	536.9	80.6	1.041	0.990	0.999	0.019	0.990	0.003	0.002	0.11	0.17

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 757 2.999 0.00 21 911 0.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SXL
1	10.500	-2.750	-1.230	1.052	1084.9	1393.3	536.2	80.7	1.070	1.014	0.998	-0.030	1.014	-0.008	-0.006	-0.33	-0.44
2	11.833	-2.750	-1.230	1.055	1087.1	1393.6	537.3	80.7	1.032	0.982	0.999	0.034	0.982	-0.017	-0.030	-1.72	-0.97
3	13.166	-2.750	-1.230	1.051	1084.1	1394.8	536.4	80.7	1.046	0.996	0.998	0.006	0.995	-0.001	-0.034	-1.94	-0.55
4	14.499	-2.750	-1.230	1.050	1082.7	1393.0	535.1	80.7	1.084	1.027	0.997	-0.057	1.027	0.004	-0.019	-1.06	0.21
5	15.832	-2.750	-1.230	1.050	1082.8	1393.4	535.4	80.8	1.144	1.072	0.996	-0.147	1.072	0.008	0.007	0.37	0.44
6	17.165	-2.750	-1.230	1.053	1085.3	1393.8	536.6	80.7	1.201	1.111	0.993	-0.227	1.110	0.009	0.047	2.44	0.44
9	18.498	-2.750	-1.230	1.047	1080.2	1393.5	534.2	80.8	0.982	0.948	0.991	0.091	0.948	-0.005	0.009	0.52	-0.28
10	19.831	-2.750	-1.230	1.052	1085.0	1394.0	536.5	80.7	1.042	0.992	0.997	0.012	0.992	0.003	-0.000	-0.00	0.20

DATE 9-MAR-78 PROJECT NO PAIC-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 762 3.001 2.00 21 901 1.98

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	KL/VM	AAL	SAL
9	10.500	4.250	-1.230	1.051	1083.9	1394.1	536.1	80.6	1.111	1.046	0.997	-0.095	1.045	-0.000	0.039	2.14	-0.03
10	11.160	4.250	-1.230	1.052	1084.5	1393.3	536.0	80.7	1.059	1.006	0.997	-0.015	1.005	0.014	0.032	1.80	0.77
11	11.812	4.250	-1.230	1.050	1082.8	1392.5	535.0	80.5	1.032	0.986	0.998	0.027	0.985	0.027	0.025	1.46	1.56
12	12.498	4.250	-1.230	1.051	1084.1	1394.0	536.2	80.6	1.019	0.975	0.999	0.049	0.974	0.034	0.015	0.86	2.03
13	13.164	4.250	-1.230	1.053	1085.0	1394.0	536.6	80.6	1.003	0.961	0.999	0.076	0.961	0.036	-0.001	-0.04	2.16
14	13.830	4.250	-1.230	1.052	1084.4	1393.5	536.1	80.6	1.017	0.973	0.999	0.053	0.972	0.028	-0.012	-0.68	1.67
15	14.496	4.250	-1.230	1.053	1085.6	1393.1	536.6	80.6	1.040	0.989	0.999	0.020	0.989	0.016	-0.012	-0.69	0.94
16	15.162	4.250	-1.230	1.052	1084.6	1394.6	536.7	80.5	1.038	1.003	0.998	-0.011	1.005	0.007	-0.006	-0.37	0.41
17	15.828	4.250	-1.230	1.049	1081.8	1393.3	534.9	80.5	1.075	1.020	0.998	-0.043	1.020	0.002	0.003	0.17	0.14
18	16.494	4.250	-1.230	1.051	1083.8	1392.7	535.5	80.6	1.117	1.051	0.998	-0.104	1.050	-0.000	0.019	1.06	-0.91
19	17.160	4.250	-1.230	1.050	1082.6	1394.3	535.6	80.5	1.153	1.078	0.996	-0.160	1.078	-0.006	0.042	2.21	-0.30
20	17.826	4.250	-1.230	1.050	1083.1	1393.6	535.6	80.5	1.191	1.106	0.994	-0.216	1.103	-0.010	0.077	4.01	-0.52
21	18.492	4.250	-1.230	1.051	1084.1	1394.0	536.1	80.7	1.146	1.072	0.989	-0.155	1.071	0.014	0.038	2.01	0.72
22	19.158	4.250	-1.230	1.052	1084.8	1392.9	536.1	80.5	1.019	0.974	0.993	0.043	0.974	0.013	0.015	0.90	0.79
23	19.824	4.250	-1.230	1.054	1085.8	1394.2	537.0	80.5	1.039	0.989	0.998	0.020	0.988	0.011	0.018	1.04	0.65

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HELIX-6 ALFA CONFIG SURVEY ALFAS

TC-532 765 3.004 2.00 904 2.00

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VMI/VM	PTL/PT	CPL	UL/VM	VL/VM	ML/VM	AML	SWL
1	10.500	3.500	-2.730	1.053	1084.9	1394.2	536.7	80.4	1.109	1.044	0.997	-0.090	1.043	0.001	0.039	2.112	0.07
2	10.833	3.500	-2.730	1.052	1084.8	1392.8	536.8	80.6	1.103	1.039	0.998	-0.081	1.039	0.003	0.037	2.02	0.16
3	11.166	3.500	-2.730	1.054	1085.9	1393.6	536.8	80.6	1.073	1.015	0.997	-0.034	1.015	0.009	0.028	1.57	0.50
4	11.499	3.500	-2.730	1.054	1085.4	1393.7	537.1	80.6	1.042	0.990	0.998	0.017	0.990	0.014	0.021	1.20	0.21
5	11.832	3.500	-2.730	1.053	1085.5	1391.9	536.0	80.5	1.034	0.985	0.999	0.028	0.965	0.017	0.016	0.93	1.00
7	12.165	3.500	-2.730	1.049	1081.8	1393.6	535.0	80.6	1.035	0.990	0.999	0.019	0.989	0.018	0.010	0.58	1.02
8	12.498	3.500	-2.730	1.049	1081.7	1392.9	534.7	80.6	1.032	0.987	0.999	0.025	0.986	0.017	0.007	0.38	1.01
9	12.831	3.500	-2.730	1.049	1082.0	1393.4	535.0	80.6	1.030	0.985	0.999	0.028	0.985	0.018	0.004	0.22	1.02
10	13.164	3.500	-2.730	1.051	1082.4	1393.2	535.6	80.5	1.033	0.986	0.999	0.027	0.986	0.017	0.001	0.07	0.96
11	13.497	3.500	-2.730	1.050	1082.6	1392.1	534.8	80.5	1.031	0.986	0.999	0.028	0.985	0.015	-0.000	-0.01	0.89
12	13.830	3.500	-2.730	1.052	1083.8	1393.8	536.4	80.6	1.040	0.991	0.999	0.018	0.931	0.014	-0.001	-0.05	0.78
13	14.163	3.500	-2.730	1.053	1085.1	1393.1	536.3	80.4	1.048	0.996	0.999	0.007	0.936	0.012	-0.000	-0.02	0.71
14	14.496	3.500	-2.730	1.052	1084.3	1393.8	536.2	80.5	1.053	1.001	0.998	-0.005	1.001	0.010	0.001	0.00	0.60
15	14.829	3.500	-2.730	1.052	1084.4	1392.9	535.9	80.5	1.061	1.007	0.999	-0.016	1.007	0.009	0.004	0.00	0.53
16	15.162	3.500	-2.730	1.053	1085.6	1393.2	536.5	80.6	1.070	1.013	0.999	-0.027	1.013	0.008	0.005	0.29	0.45
17	15.495	3.500	-2.730	1.052	1084.4	1394.5	536.5	80.6	1.075	1.018	0.998	-0.039	1.018	0.007	0.007	0.39	0.40
18	15.828	3.500	-2.730	1.053	1085.0	1393.7	536.5	80.5	1.086	1.026	0.998	-0.054	1.026	0.006	0.010	0.58	0.34
19	16.161	3.500	-2.730	1.053	1085.1	1392.6	536.1	80.5	1.093	1.031	0.999	-0.064	1.031	0.006	0.013	0.72	0.31
20	16.494	3.500	-2.730	1.053	1085.0	1392.4	536.2	80.5	1.099	1.036	0.998	-0.074	1.036	0.005	0.017	0.92	0.27
21	16.827	3.500	-2.730	1.051	1083.3	1393.2	535.6	80.5	1.096	1.035	0.998	-0.073	1.035	0.003	0.020	1.12	0.15
22	17.160	3.500	-2.730	1.052	1084.9	1394.8	536.8	80.6	1.110	1.045	0.998	-0.091	1.044	0.002	0.025	1.37	0.10
23	17.493	3.500	-2.730	1.052	1084.2	1394.1	536.3	80.4	1.126	1.056	0.998	-0.115	1.056	0.001	0.031	1.70	0.07
24	17.826	3.500	-2.730	1.049	1081.8	1392.6	534.7	80.5	1.124	1.058	0.998	-0.117	1.057	-0.003	0.044	2.36	-0.19
25	18.159	3.500	-2.730	1.050	1082.5	1393.1	535.1	80.5	1.141	1.070	0.998	-0.142	1.063	-0.003	0.052	2.77	-0.18
26	18.492	3.500	-2.730	1.052	1084.9	1394.1	536.5	80.6	1.159	1.080	0.996	-0.164	1.079	-0.002	0.061	3.23	-0.13
27	18.825	3.500	-2.730	1.054	1085.9	1393.7	536.9	80.5	1.174	1.091	0.995	-0.186	1.084	0.002	0.069	3.51	0.08
28	19.158	3.500	-2.730	1.053	1085.5	1390.7	535.5	80.5	1.168	1.086	0.994	-0.177	1.084	0.009	0.066	3.51	0.49
29	19.491	3.500	-2.730	1.051	1083.2	1392.6	535.3	80.5	1.002	0.962	0.995	0.069	0.982	0.014	0.028	1.67	0.83

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA CONFIG

TC-532 7.3 3.000 2.00 21 SURVEY ALFAS

902 1.99

DATE 2-22-78
AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.980	1.051	1083.9	1393.1	535.8	80.5	1.108	1.044	0.997	-0.090	1.043	0.002	0.039	2.16	0.11
2	10.833	3.500	-1.980	1.052	1084.2	1393.7	536.1	80.6	1.087	1.037	0.998	-0.057	1.027	0.007	0.033	1.42	0.40
3	11.166	3.500	-1.980	1.053	1085.4	1394.0	536.7	80.6	1.053	1.030	0.997	-0.003	0.999	0.014	0.026	1.48	0.82
4	11.499	3.500	-1.980	1.054	1086.2	1394.4	537.2	80.6	1.032	0.983	0.998	0.030	0.983	0.019	0.020	1.15	1.12
5	11.832	3.500	-1.980	1.048	1081.2	1392.1	534.2	80.5	1.033	0.988	0.999	0.022	0.988	0.022	0.014	0.80	1.26
6	12.165	3.500	-1.980	1.048	1081.5	1393.0	534.6	80.6	1.029	0.985	0.999	0.029	0.985	0.023	0.008	0.47	1.36
7	12.498	3.500	-1.980	1.049	1082.2	1392.8	534.9	80.6	1.027	0.983	0.999	0.034	0.982	0.024	0.004	0.22	1.37
8	12.831	3.500	-1.980	1.051	1083.4	1393.0	535.4	80.6	1.025	0.980	0.998	0.038	0.980	0.022	-0.000	-0.01	1.32
9	13.164	3.500	-1.980	1.051	1083.4	1393.7	535.8	80.5	1.028	0.982	0.999	0.035	0.982	0.021	-0.003	-0.19	1.21
10	13.497	3.500	-1.980	1.052	1084.7	1393.5	536.3	80.4	1.031	0.984	0.999	0.031	0.983	0.019	-0.006	-0.3	1.09
11	13.830	3.500	-1.980	1.052	1084.5	1392.3	535.8	80.4	1.034	0.986	0.999	0.027	0.986	0.016	-0.006	-0.45	0.94
12	14.163	3.500	-1.980	1.050	1083.0	1394.6	535.9	80.6	1.041	0.993	0.999	0.013	0.993	0.013	-0.006	-0.35	0.77
13	14.496	3.500	-1.980	1.049	1081.9	1394.1	535.2	80.6	1.039	0.993	0.999	0.013	0.992	0.011	-0.004	-0.24	0.65
14	14.829	3.500	-1.980	1.049	1081.9	1393.7	535.1	80.5	1.049	1.000	0.999	-0.002	1.000	0.009	-0.002	-0.09	0.50
15	15.162	3.500	-1.980	1.050	1082.8	1392.8	535.1	80.6	1.066	1.013	0.999	-0.027	1.013	0.007	0.004	0.20	0.40
16	15.495	3.500	-1.980	1.052	1084.5	1394.3	536.4	80.7	1.086	1.026	0.999	-0.054	1.026	0.005	0.006	0.3	0.30
17	15.828	3.500	-1.980	1.052	1084.2	1391.3	535.2	80.6	1.094	1.033	0.999	-0.067	1.033	0.005	0.012	0.66	0.27
18	16.161	3.500	-1.980	1.053	1085.5	1393.6	536.6	80.6	1.105	1.040	0.998	-0.082	1.040	0.004	0.015	0.82	0.20
19	16.494	3.500	-1.980	1.051	1083.6	1394.0	536.0	80.5	1.107	1.043	0.998	-0.089	1.043	0.003	0.018	0.99	0.15
20	16.827	3.500	-1.980	1.051	1083.9	1392.3	535.5	80.5	1.116	1.049	0.998	-0.101	1.049	0.001	0.024	1.23	0.37
21	17.160	3.500	-1.980	1.053	1085.6	1393.7	536.7	80.5	1.132	1.060	0.998	-0.122	1.059	0.001	0.033	1.60	0.04
22	17.493	3.500	-1.980	1.053	1085.0	1393.9	536.6	80.5	1.148	1.072	0.997	-0.147	1.072	-0.001	0.043	2.31	-0.05
23	17.826	3.500	-1.980	1.051	1083.6	1395.4	536.4	80.6	1.150	1.076	0.996	-0.155	1.074	-0.005	0.057	3.02	-0.25
24	18.159	3.500	-1.980	1.050	1083.0	1392.6	535.2	80.4	1.170	1.090	0.995	-0.185	1.088	-0.004	0.069	3.62	-0.21
25	18.492	3.500	-1.980	1.051	1083.7	1392.1	535.2	80.6	1.162	1.096	0.995	-0.201	1.096	0.001	0.075	3.90	0.07
26	18.825	3.500	-1.980	1.054	1086.1	1393.9	537.0	80.7	1.147	1.071	0.993	-0.149	1.070	0.012	0.046	2.44	0.67
27	19.158	3.500	-1.980	1.051	1083.4	1393.2	535.5	80.7	1.029	0.983	0.993	0.024	0.983	0.015	0.023	1.37	0.87
28	19.491	3.500	-1.980	1.050	1083.3	1394.2	535.8	80.7	0.998	0.958	0.996	0.078	0.958	0.015	0.020	1.20	0.89

DATE 9-MAR-78 PROJECT NO P41C-NOC

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6

ALFA CONFIG 21

SURVEY ALFAS 903 1.99

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	U	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VI/VM	WL/VM	AAL	SAL
1	10.500	3.500	-1.230	1.054	1086.0	1393.9	536.9	80.7	1.098	1.034	0.996	-0.072	1.033	0.004	0.037	2.07	0.21
2	10.833	3.500	-1.230	1.052	1084.9	1392.6	535.9	80.6	1.064	1.009	0.998	-0.021	1.008	0.012	0.033	1.87	0.71
3	11.166	3.500	-1.230	1.053	1085.3	1393.5	536.5	80.6	1.034	0.986	0.998	0.026	0.985	0.020	0.027	1.59	1.15
4	11.499	3.500	-1.230	1.052	1084.7	1394.2	536.5	80.5	1.030	0.983	0.998	0.032	0.982	0.027	0.022	1.27	1.55
5	11.832	3.500	-1.230	1.052	1084.8	1392.7	536.0	80.6	1.017	0.973	0.999	0.054	0.972	0.031	0.016	0.91	1.64
6	12.165	3.500	-1.230	1.051	1083.3	1393.1	535.5	80.5	1.006	0.965	0.999	0.069	0.964	0.034	0.007	0.39	2.01
7	12.498	3.500	-1.230	1.050	1083.1	1392.1	535.1	80.4	0.996	0.957	0.999	0.085	0.957	0.033	-0.002	-0.10	1.99
8	12.831	3.500	-1.230	1.052	1084.3	1393.9	536.3	80.5	0.996	0.956	0.999	0.086	0.956	0.030	-0.009	-0.54	1.82
9	13.164	3.500	-1.230	1.053	1085.3	1394.0	536.7	80.5	1.005	0.962	0.999	0.073	0.962	0.027	-0.014	-0.81	1.81
10	13.497	3.500	-1.230	1.051	1083.9	1393.9	536.1	80.5	1.019	0.974	0.998	0.049	0.974	0.022	-0.016	-0.91	1.32
11	13.830	3.500	-1.230	1.051	1083.7	1393.0	535.6	80.5	1.029	0.983	0.999	0.033	0.983	0.018	-0.016	-0.91	1.03
12	14.163	3.500	-1.230	1.051	1084.1	1392.7	535.7	80.6	1.035	0.987	0.999	0.025	0.987	0.014	-0.014	-0.81	0.80
13	14.496	3.500	-1.230	1.053	1085.5	1394.3	536.8	80.7	1.040	0.990	0.999	0.019	0.989	0.010	-0.011	-0.66	0.59
14	14.829	3.500	-1.230	1.054	1086.0	1393.4	535.8	80.5	1.048	0.996	0.999	0.007	0.995	0.007	-0.008	-0.47	0.40
15	15.162	3.500	-1.230	1.048	1081.0	1392.7	534.3	80.5	1.047	0.999	0.998	-0.000	0.999	0.005	-0.004	-0.23	0.29
16	15.495	3.500	-1.230	1.048	1081.6	1392.7	534.6	80.4	1.064	1.012	0.999	0.026	1.012	0.004	0.001	0.04	0.21
17	15.828	3.500	-1.230	1.050	1083.2	1393.7	535.7	80.5	1.079	1.022	0.998	-0.047	1.022	0.003	0.006	0.32	0.17
18	16.161	3.500	-1.230	1.051	1083.5	1392.9	535.5	80.5	1.099	1.037	0.998	-0.076	1.037	0.001	0.012	0.37	0.06
19	16.494	3.500	-1.230	1.051	1083.8	1394.2	536.1	80.6	1.126	1.057	0.997	-0.117	1.057	-0.000	0.023	1.25	-0.02
20	16.827	3.500	-1.230	1.051	1083.8	1393.6	535.9	80.5	1.142	1.069	0.997	-0.141	1.069	-0.002	0.034	1.80	-0.13
21	17.160	3.500	-1.230	1.052	1084.5	1393.4	536.1	80.5	1.160	1.082	0.996	-0.167	1.082	-0.003	0.048	2.53	-0.18
22	17.493	3.500	-1.230	1.053	1085.9	1394.0	536.9	80.7	1.179	1.094	0.994	-0.193	1.092	-0.004	0.062	3.27	-0.19
23	17.826	3.500	-1.230	1.054	1086.5	1392.1	536.5	80.6	1.195	1.106	0.993	-0.216	1.103	-0.003	0.075	3.88	-0.17
24	18.159	3.500	-1.230	1.050	1082.5	1392.2	534.9	80.4	1.180	1.099	0.992	-0.203	1.096	0.002	0.073	3.83	0.08
25	18.492	3.500	-1.230	1.051	1083.7	1393.1	535.7	80.5	1.095	1.034	0.992	-0.077	1.033	0.014	0.033	1.84	0.76
26	18.825	3.500	-1.230	1.053	1085.4	1394.1	536.8	80.5	1.026	0.974	0.992	0.031	0.979	0.017	0.023	1.32	0.97
27	19.158	3.500	-1.230	1.052	1084.2	1392.5	535.7	80.5	1.041	0.992	0.998	0.014	0.991	0.015	0.020	1.15	0.84
28	19.491	3.500	-1.230	1.053	1085.6	1393.4	536.6	80.5	1.043	0.992	0.998	0.013	0.992	0.012	0.018	1.05	0.69

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 766 3.003 2.00 21 905 2.00

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VW	PT	Q	TT	ML	VML/VW	PTL/PT	CPL	UL/VW	VL/VW	WL/VW	AAL	SWL
1	10.500	2.750	-1.230	1.050	1083.0	1394.3	535.9	80.4	1.083	1.026	0.997	-0.054	1.025	0.011	0.035	1.95	0.60
2	11.166	2.750	-1.230	1.051	1083.8	1392.8	535.6	80.5	1.029	0.983	0.998	0.032	0.982	0.025	0.019	1.12	1.46
3	11.832	2.750	-1.230	1.053	1085.3	1392.9	536.3	80.5	0.997	0.956	0.999	0.087	0.955	0.030	0.000	0.01	1.79
4	12.498	2.750	-1.230	1.053	1085.5	1392.9	536.4	80.5	1.000	0.958	0.999	0.083	0.958	0.025	-0.013	-0.74	1.47
5	13.164	2.750	-1.230	1.054	1085.9	1392.3	536.4	80.4	1.021	0.974	0.999	0.050	0.974	0.016	-0.017	-1.01	0.95
6	13.830	2.750	-1.230	1.052	1084.4	1391.5	535.4	80.4	1.034	0.986	0.999	0.027	0.986	0.010	-0.015	-0.66	0.57
7	14.496	2.750	-1.230	1.052	1084.0	1392.1	535.5	80.4	1.041	0.992	0.998	0.015	0.992	0.007	-0.010	-0.56	0.38
8	15.162	2.750	-1.230	1.050	1082.6	1393.0	535.2	80.4	1.048	0.999	0.998	0.001	0.999	0.006	-0.002	-0.12	0.32
9	15.828	2.750	-1.230	1.052	1084.3	1393.1	536.0	80.4	1.073	1.017	0.998	-0.036	1.017	0.005	0.007	0.39	0.29
10	16.494	2.750	-1.230	1.055	1086.7	1392.7	536.9	80.4	1.130	1.058	0.997	-0.118	1.057	0.000	0.027	1.47	0.02
11	17.160	2.750	-1.230	1.052	1084.8	1394.3	536.7	80.4	1.150	1.051	0.956	-0.166	1.080	0.001	0.050	2.67	0.07
12	17.826	2.750	-1.230	1.054	1086.2	1392.4	536.5	80.4	1.186	1.059	0.993	-0.205	1.097	0.007	0.071	3.88	0.35
13	18.492	2.750	-1.230	1.052	1084.2	1393.8	536.2	80.4	1.050	1.006	0.992	-0.023	1.006	0.014	0.030	1.68	0.79
14	19.158	2.750	-1.230	1.053	1085.6	1392.7	536.4	80.4	1.057	1.003	0.998	-0.008	1.003	0.013	0.020	1.12	0.76
16	19.824	2.750	-1.230	1.053	1095.3	1393.2	536.4	80.4	1.039	0.989	0.997	0.019	0.989	0.011	0.020	1.18	0.61

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 767 2.999 2.00 21 SURVEY ALFAS 906 2.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ASL	SAL
1	9.834	0.750	-2.208	1.050	1082.7	1393.0	535.2	80.5	1.087	1.028	0.998	-0.060	1.028	0.006	0.020	1.12	0.44
2	10.500	0.750	-2.208	1.051	1083.4	1392.1	535.2	80.4	1.070	1.015	0.998	-0.032	1.015	0.007	0.017	0.97	0.40
3	11.166	0.750	-2.208	1.053	1085.2	1393.8	536.6	80.4	1.041	0.991	0.998	0.016	0.991	0.004	0.008	0.46	0.23
4	11.832	0.750	-2.208	1.054	1085.7	1393.7	536.8	80.4	1.034	0.985	0.999	0.029	0.985	0.003	0.002	0.10	0.15
5	12.496	0.750	-2.208	1.054	1086.1	1393.8	537.0	80.4	1.038	0.987	0.999	0.024	0.987	0.002	-0.002	-0.12	0.09
6	13.164	0.750	-2.208	1.049	1081.9	1392.4	534.7	80.4	1.040	0.993	0.999	0.013	0.993	0.001	-0.004	-0.22	0.05
7	13.830	0.750	-2.208	1.052	1084.1	1394.6	536.5	80.4	1.049	0.998	0.998	0.002	0.998	0.001	-0.003	-0.20	0.04
8	14.496	0.750	-2.208	1.048	1081.4	1392.9	534.6	80.5	1.054	1.005	0.999	-0.011	1.005	0.002	-0.001	-0.05	0.12
9	15.162	0.750	-2.208	1.051	1083.7	1393.5	535.8	80.6	1.068	1.013	0.998	-0.024	1.013	0.004	0.001	0.07	0.22
10	15.828	0.750	-2.208	1.052	1084.6	1392.3	535.8	80.6	1.078	1.020	0.999	-0.041	1.020	0.005	0.005	0.26	0.29
11	16.494	0.750	-2.208	1.051	1083.1	1393.6	535.7	80.4	1.087	1.028	0.997	-0.060	1.028	0.007	0.009	0.53	0.39
12	17.160	0.750	-2.208	1.052	1084.3	1392.3	535.6	80.5	1.108	1.043	0.998	-0.089	1.043	0.009	0.016	0.89	0.48
13	17.826	0.750	-2.208	1.052	1084.6	1393.0	536.1	80.4	1.136	1.064	0.996	-0.131	1.064	0.010	0.026	1.42	0.53
14	18.492	0.750	-2.208	1.053	1085.0	1394.4	536.8	80.4	1.150	1.074	0.995	-0.157	1.074	0.011	0.033	1.76	0.59
15	19.158	0.750	-2.208	1.050	1082.8	1392.9	535.2	80.5	1.051	1.001	0.997	-0.060	1.001	0.010	0.022	1.26	0.58
16	19.824	0.750	-2.208	1.052	1084.3	1392.2	535.6	80.5	1.046	0.995	0.999	0.008	0.995	0.007	0.018	1.02	0.43

DATE 9-MAR-78 PROJECT NO P41C-N0C

APC, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARLORD AIR FORCE STATION, TENNESSEE

TEST PART REF10-6 ALFA CONFIG

TC-532 912 2.999 2.00 21 SURVEY ALFAS 909 2.00

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-3.708	1.051	1065.3	1399.4	538.0	82.4	1.119	1.033	0.999	-0.106	1.052	-0.003	0.034	1.64	-0.17
2	10.167	0.000	-3.708	1.052	1066.2	1400.6	538.6	82.5	1.113	1.047	0.994	-0.097	1.047	-0.003	0.035	1.96	-0.16
3	10.500	0.000	-3.708	1.051	1066.0	1400.0	538.4	82.6	1.109	1.044	0.998	-0.091	1.044	-0.003	0.034	1.85	-0.15
4	10.833	0.000	-3.708	1.051	1066.2	1399.5	538.3	82.7	1.101	1.038	0.999	-0.077	1.038	-0.003	0.030	1.61	-0.15
5	11.166	0.000	-3.708	1.051	1065.9	1400.5	538.6	82.7	1.092	1.032	0.999	-0.065	1.031	-0.003	0.024	1.31	-0.17
6	11.499	0.000	-3.708	1.052	1067.0	1401.3	539.4	82.6	1.061	1.006	0.998	-0.015	1.006	-0.003	0.015	0.88	-0.17
7	11.832	0.000	-3.708	1.051	1065.8	1399.0	538.1	82.3	1.043	0.993	0.999	0.012	0.993	-0.003	0.010	0.57	-0.14
8	12.165	0.000	-3.708	1.053	1067.1	1398.7	538.5	82.4	1.043	0.992	0.999	0.015	0.992	-0.002	0.006	0.37	-0.13
9	12.498	0.000	-3.708	1.053	1067.7	1400.0	539.2	82.5	1.045	0.993	1.000	0.013	0.993	-0.002	0.005	0.27	-0.13
10	12.831	0.000	-3.708	1.050	1064.9	1399.7	537.8	82.5	1.044	0.995	1.000	0.009	0.995	-0.002	0.003	0.17	-0.12
11	13.164	0.000	-3.708	1.049	1063.9	1398.9	537.0	82.6	1.042	0.995	1.001	0.011	0.995	-0.002	0.002	0.10	-0.11
12	13.497	0.000	-3.708	1.051	1066.2	1400.5	538.6	82.7	1.048	0.997	0.999	0.004	0.997	-0.002	0.002	0.11	-0.12
13	13.830	0.000	-3.708	1.052	1066.8	1400.6	539.0	82.7	1.049	0.998	0.999	0.003	0.998	-0.002	0.002	0.11	-0.11
14	14.163	0.000	-3.708	1.053	1067.4	1400.2	539.1	82.7	1.057	1.003	0.999	-0.007	1.003	-0.002	0.003	0.15	-0.09
15	14.496	0.000	-3.708	1.051	1065.9	1399.4	538.3	82.7	1.056	1.004	0.999	-0.008	1.004	-0.001	0.004	0.20	-0.09
16	14.829	0.000	-3.708	1.053	1067.3	1399.9	538.9	82.7	1.065	1.010	0.999	-0.020	1.010	-0.001	0.004	0.23	-0.08
17	15.162	0.000	-3.708	1.054	1068.2	1400.9	539.7	82.6	1.072	1.014	0.999	-0.030	1.014	-0.002	0.005	0.35	-0.09
18	15.495	0.000	-3.708	1.054	1068.5	1399.5	539.3	82.7	1.076	1.017	0.999	-0.035	1.017	-0.002	0.006	0.48	-0.10
19	15.828	0.000	-3.708	1.050	1064.7	1399.1	537.5	82.5	1.079	1.022	1.000	-0.045	1.022	-0.002	0.011	0.50	-0.09
20	16.161	0.000	-3.708	1.052	1066.3	1400.0	538.6	82.6	1.086	1.026	0.999	-0.054	1.026	-0.002	0.013	0.72	-0.10
21	16.494	0.000	-3.708	1.053	1067.3	1399.9	538.9	82.6	1.092	1.030	0.999	-0.062	1.030	-0.002	0.015	0.82	-0.09
22	16.827	0.000	-3.708	1.053	1067.6	1400.1	539.2	82.6	1.098	1.034	0.999	-0.069	1.034	-0.002	0.017	0.95	-0.11
23	17.160	0.000	-3.708	1.052	1066.6	1400.4	539.0	82.7	1.104	1.044	0.998	-0.090	1.044	-0.002	0.019	1.02	-0.12
24	17.493	0.000	-3.708	1.052	1067.3	1399.9	538.8	82.9	1.115	1.048	0.999	-0.097	1.048	-0.002	0.022	1.23	-0.11
25	17.826	0.000	-3.708	1.051	1066.1	1401.8	539.0	83.0	1.122	1.054	0.998	-0.110	1.054	-0.003	0.028	1.43	-0.13
26	18.159	0.000	-3.708	1.052	1066.5	1401.9	539.3	82.7	1.102	1.039	0.998	-0.083	1.038	-0.003	0.039	2.14	-0.15
27	18.492	0.000	-3.708	1.053	1067.1	1400.0	538.9	82.7	1.115	1.048	0.998	-0.099	1.047	-0.002	0.043	2.36	-0.12
28	18.825	0.000	-3.708	1.051	1066.3	1400.6	538.7	82.8	1.125	1.056	0.998	-0.114	1.055	-0.001	0.049	2.82	-0.08
29	19.158	0.000	-3.708	1.052	1066.7	1402.1	539.5	82.9	1.129	1.059	0.998	-0.120	1.058	-0.001	0.053	2.84	-0.06
30	19.491	0.000	-3.708	1.054	1068.3	1401.3	539.7	83.0	1.130	1.058	0.997	-0.119	1.057	-0.001	0.053	2.89	-0.07

DATE 9-MAR-74 PROJECT NO P4IC-NOC

ARC, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARYOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 768 3.000 2.00 21 907 2.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	V4	PT	Q	TT	ML	VML/VW	PTL/PT	CPL	UL/VW	VL/VW	WL/VW	AAL	SVL
1	9.834	0.000	-2.958	1.050	1082.7	1392.9	535.2	80.3	1.109	1.045	0.997	-0.093	1.045	-0.001	0.029	1.60	-0.07
2	10.167	0.000	-2.958	1.050	1082.9	1392.0	534.9	80.4	1.103	1.041	0.998	-0.084	1.040	-0.001	0.029	1.61	-0.08
3	10.500	0.000	-2.958	1.050	1082.9	1391.9	534.9	80.4	1.094	1.034	0.998	-0.070	1.034	-0.001	0.026	1.43	-0.07
4	10.833	0.000	-2.958	1.051	1083.4	1392.1	535.2	80.4	1.076	1.020	0.998	-0.042	1.019	-0.001	0.021	1.20	-0.06
5	11.166	0.000	-2.958	1.051	1083.4	1392.4	535.3	80.5	1.051	1.000	0.998	-0.003	1.000	-0.001	0.014	0.80	-0.07
6	11.499	0.000	-2.958	1.053	1085.1	1393.6	536.5	80.5	1.033	0.985	0.998	0.027	0.985	-0.001	0.009	0.52	-0.05
7	11.832	0.000	-2.958	1.050	1082.4	1392.4	534.8	80.5	1.033	0.986	0.999	0.028	0.986	-0.001	0.004	0.25	-0.06
8	12.165	0.000	-2.958	1.048	1081.4	1392.1	534.3	80.5	1.031	0.987	0.999	0.025	0.987	-0.001	0.003	0.15	-0.05
9	12.498	0.000	-2.958	1.049	1081.7	1392.0	534.4	80.5	1.032	0.987	0.999	0.026	0.987	-0.001	0.003	0.04	-0.04
10	12.831	0.000	-2.958	1.051	1083.5	1393.9	535.9	80.6	1.036	0.989	0.999	0.021	0.989	-0.001	0.001	-0.06	-0.04
11	13.164	0.000	-2.958	1.052	1084.3	1393.8	536.1	80.6	1.040	0.991	0.999	0.016	0.991	-0.001	0.001	-0.05	-0.04
12	13.497	0.000	-2.958	1.052	1084.8	1394.1	536.6	80.5	1.045	0.994	0.999	0.010	0.994	-0.001	0.001	-0.06	-0.01
13	13.830	0.000	-2.958	1.051	1083.8	1394.7	536.3	80.5	1.046	0.996	0.999	0.007	0.996	-0.001	0.000	-0.01	-0.01
14	14.163	0.000	-2.958	1.052	1084.1	1393.3	535.9	80.5	1.049	0.998	0.999	0.002	0.998	-0.001	0.001	0.04	-0.03
15	14.496	0.000	-2.958	1.050	1082.8	1394.6	535.8	80.7	1.054	1.003	0.998	-0.009	1.003	0.000	0.002	0.09	0.00
16	14.829	0.000	-2.958	1.050	1083.4	1393.5	535.6	80.7	1.061	1.008	0.998	-0.019	1.008	0.000	0.003	0.19	0.01
17	15.162	0.000	-2.958	1.052	1084.6	1394.2	536.4	80.6	1.068	1.012	0.998	-0.027	1.012	0.000	0.005	0.29	0.03
18	15.495	0.000	-2.958	1.053	1085.6	1394.2	536.9	80.5	1.075	1.017	0.998	-0.037	1.017	0.001	0.008	0.45	0.02
19	15.828	0.000	-2.958	1.051	1083.2	1392.4	535.2	80.4	1.079	1.022	0.998	-0.046	1.022	0.000	0.010	0.57	0.02
20	16.161	0.000	-2.958	1.052	1084.2	1392.9	535.8	80.5	1.088	1.028	0.999	-0.057	1.028	0.001	0.013	0.72	0.02
21	16.494	0.000	-2.958	1.050	1082.9	1393.1	535.4	80.4	1.102	1.040	0.999	-0.081	1.039	0.000	0.016	0.86	0.01
22	16.827	0.000	-2.958	1.052	1084.2	1393.9	536.2	80.5	1.113	1.047	0.998	-0.096	1.047	0.000	0.019	1.06	0.00
23	17.160	0.000	-2.958	1.050	1082.7	1392.9	535.1	80.5	1.121	1.055	0.998	-0.111	1.054	-0.001	0.024	1.29	-0.03
24	17.493	0.000	-2.958	1.052	1084.6	1394.5	536.6	80.6	1.133	1.062	0.996	-0.127	1.061	-0.001	0.031	1.53	-0.05
25	17.826	0.000	-2.958	1.051	1083.9	1392.4	535.5	80.5	1.139	1.067	0.997	-0.137	1.067	-0.002	0.034	1.80	-0.10
26	18.159	0.000	-2.958	1.053	1085.2	1394.5	536.8	80.6	1.140	1.066	0.996	-0.149	1.065	-0.002	0.033	2.31	-0.09
27	18.492	0.000	-2.958	1.055	1086.7	1395.0	537.7	80.5	1.149	1.072	0.994	-0.171	1.071	-0.000	0.046	2.45	-0.02
28	18.825	0.000	-2.958	1.050	1082.9	1393.0	535.3	80.4	1.073	1.017	0.996	-0.039	1.017	0.001	0.030	1.63	0.06
29	19.158	0.000	-2.958	1.052	1084.2	1394.3	536.3	80.6	1.042	0.992	0.996	0.010	0.992	0.001	0.025	1.45	0.07
30	19.491	0.000	-2.958	1.052	1084.2	1394.3	536.3	80.6	1.042	0.992	0.996	0.010	0.992	0.001	0.025	1.45	0.07

DATE 9-MAR-78 PROJECT NO P41C-N0C

ASCO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART MX10-6 ALFA CONFIG

TC-532 911 3.000 2.00 21 SURVEY ALFAS 908 1.99

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	9.831	0.000	-2.208	1.047	1041.1	1397.4	535.8	81.4	1.102	1.043	0.997	-0.089	1.043	-0.003	0.015	0.83	-0.16
2	10.167	0.000	-2.208	1.050	1043.0	1397.4	535.9	81.4	1.091	1.032	0.998	-0.066	1.032	-0.003	0.016	0.83	-0.15
3	10.500	0.000	-2.208	1.051	1044.8	1396.6	537.1	81.5	1.080	1.022	0.998	-0.046	1.022	-0.002	0.015	0.83	-0.12
4	10.833	0.000	-2.208	1.052	1045.9	1396.7	537.6	81.5	1.067	1.011	0.998	-0.024	1.011	-0.002	0.011	0.82	-0.14
5	11.166	0.000	-2.208	1.052	1045.1	1396.7	537.3	81.3	1.053	1.001	0.999	-0.004	1.001	-0.003	0.007	0.82	-0.16
6	11.499	0.000	-2.208	1.053	1046.1	1396.6	537.7	81.4	1.048	0.997	0.999	0.005	0.997	-0.003	0.005	0.82	-0.16
7	11.832	0.000	-2.208	1.054	1047.2	1397.1	538.3	81.4	1.047	0.994	0.999	0.010	0.994	-0.003	0.003	0.82	-0.17
8	12.165	0.000	-2.208	1.052	1045.1	1398.0	537.7	81.5	1.048	0.987	0.999	0.004	0.987	-0.003	0.000	0.82	-0.17
9	12.498	0.000	-2.208	1.052	1045.4	1397.3	537.5	81.6	1.050	0.998	0.999	0.002	0.998	-0.003	-0.001	0.82	-0.16
10	12.831	0.000	-2.208	1.052	1046.1	1397.3	537.8	81.7	1.051	0.999	0.999	0.001	0.999	-0.002	-0.002	0.82	-0.14
11	13.164	0.000	-2.208	1.052	1045.9	1396.2	537.3	81.7	1.053	1.001	0.999	-0.002	1.001	-0.002	-0.002	0.82	-0.14
12	13.497	0.000	-2.208	1.050	1044.1	1397.7	537.1	81.7	1.057	1.005	0.999	-0.011	1.005	-0.002	-0.002	0.82	-0.13
13	13.830	0.000	-2.208	1.052	1045.6	1397.3	537.6	81.7	1.059	1.006	0.999	-0.013	1.006	-0.002	-0.002	0.82	-0.12
14	14.163	0.000	-2.208	1.052	1045.6	1396.9	537.4	81.7	1.062	1.008	0.999	-0.017	1.008	-0.002	-0.002	0.82	-0.11
15	14.496	0.000	-2.208	1.053	1046.6	1396.9	537.8	81.8	1.069	1.013	1.000	-0.025	1.013	-0.002	-0.001	0.82	-0.11
16	14.829	0.000	-2.208	1.049	1043.0	1396.3	536.0	81.8	1.070	1.017	0.999	-0.034	1.017	-0.001	0.000	0.82	-0.09
17	15.162	0.000	-2.208	1.051	1045.3	1397.4	537.4	82.0	1.078	1.021	1.001	-0.041	1.021	-0.001	0.002	0.82	-0.08
18	15.495	0.000	-2.208	1.052	1046.0	1397.7	537.8	82.0	1.082	1.023	1.000	-0.046	1.023	-0.001	0.002	0.82	-0.05
19	15.828	0.000	-2.208	1.053	1046.7	1398.3	538.3	82.0	1.085	1.025	1.000	-0.050	1.025	-0.001	0.003	0.82	-0.04
20	16.161	0.000	-2.208	1.051	1047.5	1398.0	538.6	81.9	1.087	1.026	0.999	-0.053	1.026	-0.000	0.004	0.82	-0.02
21	16.494	0.000	-2.208	1.050	1044.0	1397.2	538.8	81.8	1.091	1.032	0.999	-0.064	1.032	-0.001	0.007	0.82	-0.06
22	16.827	0.000	-2.208	1.052	1045.8	1398.0	537.8	82.0	1.094	1.036	0.999	-0.073	1.036	-0.001	0.009	0.82	-0.06
23	17.160	0.000	-2.208	1.052	1046.4	1398.5	538.3	82.1	1.107	1.042	0.998	-0.086	1.042	-0.001	0.011	0.82	-0.07
24	17.493	0.000	-2.208	1.053	1046.9	1398.0	538.3	82.1	1.116	1.048	0.998	-0.098	1.048	-0.002	0.015	0.82	-0.09
25	17.826	0.000	-2.208	1.053	1046.8	1400.2	539.2	81.9	1.131	1.050	0.996	-0.123	1.050	-0.002	0.017	0.82	-0.10
26	18.159	0.000	-2.208	1.053	1046.8	1398.5	538.4	82.0	1.141	1.057	0.996	-0.138	1.057	-0.002	0.021	0.82	-0.09
27	18.492	0.000	-2.208	1.051	1045.4	1400.2	538.4	82.3	1.126	1.057	0.995	-0.120	1.057	-0.002	0.023	0.82	-0.10
28	18.825	0.000	-2.208	1.051	1045.7	1397.7	537.6	82.2	1.102	1.039	0.996	-0.062	1.039	-0.000	0.021	0.82	-0.01
29	19.158	0.000	-2.208	1.051	1044.9	1397.7	537.2	82.1	1.050	1.000	0.997	-0.003	0.999	0.001	0.019	0.82	-0.07
30	19.491	0.000	-2.208	1.052	1045.3	1398.8	538.0	82.2	1.058	1.005	0.998	-0.012	1.005	0.001	0.018	0.82	-0.03

DATE 9-MAR-78 PROJECT NO PAIC-NOC
 ARCO INC.
 AEDC DIVISION
 A SVERDRUP CORPORATION COMPANY
 PROPELSION WIND TUNNEL
 AFACOLD AIR FORCE STATION, TENNESSEE
 TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
 IC-532 413 3.000 2.00 21 910 2.00

POINT	X	Y	Z	N	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	9.634	-0.750	-2.208	1.052	1087.0	1401.5	539.3	83.0	1.089	1.028	0.998	-0.058	1.027	-0.011	0.021	1.18	-0.62
2	11.167	-0.750	-2.208	1.055	1089.7	1402.1	541.5	83.3	1.048	0.995	0.999	0.008	0.995	-0.003	0.010	0.58	-0.47
5	12.500	-0.750	-2.208	1.048	1084.0	1401.6	537.9	83.1	1.045	0.998	1.000	0.005	0.998	-0.003	-0.001	-0.02	-0.39
6	13.833	-0.750	-2.208	1.052	1087.3	1401.4	539.2	83.3	1.058	1.005	1.000	-0.009	1.005	-0.004	-0.003	-0.17	-0.20
9	15.166	-0.750	-2.208	1.052	1087.3	1401.9	539.1	83.1	1.076	1.018	1.000	-0.036	1.018	-0.005	0.001	0.05	-0.35
11	16.499	-0.750	-2.208	1.052	1086.8	1401.9	539.3	83.0	1.092	1.031	0.999	-0.064	1.031	-0.007	0.013	0.55	-0.41
13	17.832	-0.750	-2.208	1.050	1085.4	1402.3	538.8	83.1	1.139	1.068	0.997	-0.139	1.068	-0.014	0.025	1.40	-0.75
14	19.165	-0.750	-2.208	1.054	1089.1	1403.2	540.7	83.3	1.072	1.014	0.995	-0.035	1.014	-0.005	0.017	0.97	-0.30
17	20.498	-0.750	-2.208	1.052	1086.6	1402.2	539.4	83.0	1.053	1.001	1.000	-0.002	1.001	-0.005	0.016	0.94	-0.31

DATE
2-12-78
AEDC PROPELSION WIND TUNNEL
TRANSONIC 47

DATE 9-MAR-78 PROJECT NO P41C-NOC

ASCO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION KIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 914 3.000 2.00 21 911 2.01

DATE 2-22-78
AEC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	-2.750	-1.230	1.052	1087.4	1402.1	539.6	83.2	1.076	1.019	0.998	-0.040	1.018	-0.015	0.034	1.94	-0.85
3	11.831	-2.750	-1.230	1.053	1086.3	1402.2	540.0	83.2	0.998	0.956	0.999	0.087	0.956	-0.032	0.002	0.14	-1.93
5	13.166	-2.750	-1.230	1.054	1088.9	1402.4	540.3	83.3	1.029	0.981	0.999	0.038	0.980	-0.020	-0.017	-1.01	-1.15
10	14.499	-2.750	-1.230	1.051	1086.7	1404.8	540.1	83.6	1.045	0.995	0.997	0.005	0.995	-0.010	-0.011	-0.60	-0.57
38	15.832	-2.750	-1.230	1.051	1087.4	1404.8	540.3	83.9	1.080	1.022	0.999	-0.046	1.022	-0.006	0.006	0.34	-0.35
40	17.165	-2.750	-1.230	1.051	1087.2	1404.4	540.0	84.0	1.169	1.089	0.996	-0.181	1.068	-0.003	0.052	2.76	-0.17
41	18.498	-2.750	-1.230	1.051	1086.7	1404.2	539.8	83.8	1.035	0.986	0.994	0.016	0.987	-0.015	0.027	1.57	-0.40
44	19.831	-2.750	-1.230	1.052	1088.1	1405.2	540.7	83.9	1.053	1.001	0.999	-0.004	1.001	-0.009	0.018	1.01	-0.52

DATE 9-MAR-78 PROJECT NO P41C-NOC

AFG, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART NEX10-6 ALPHA CONFIG

10-532 920 2.997 5.00 21 SURVEY ALFAS

901 5.00

DATE 2-22-78

AEC PROPULSION WIND TUNNEL

TRANSONIC AT

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
9	10.500	4.250	-1.230	1.053	1089.3	1405.6	541.1	84.7	1.117	1.049	0.998	-0.100	1.045	0.002	0.096	5.23	0.09
10	11.166	4.250	-1.230	1.051	1088.2	1407.6	541.4	84.7	1.038	0.989	0.998	0.019	0.985	0.023	0.085	4.36	1.35
11	11.832	4.250	-1.230	1.052	1088.5	1407.4	541.4	84.7	1.006	0.964	0.999	0.071	0.960	0.039	0.077	4.59	2.35
12	12.498	4.250	-1.230	1.052	1088.9	1405.9	541.0	84.7	0.967	0.932	1.000	0.136	0.928	0.058	0.055	4.60	3.55
13	13.164	4.250	-1.230	1.050	1087.1	1407.2	540.8	84.6	0.943	0.914	0.999	0.170	0.911	0.066	0.041	2.57	4.13
14	13.830	4.250	-1.230	1.052	1088.8	1407.6	541.7	84.6	0.946	0.915	0.999	0.169	0.913	0.059	0.021	1.31	3.69
15	14.496	4.250	-1.230	1.053	1089.4	1407.2	541.8	84.6	0.964	0.929	0.999	0.140	0.928	0.047	0.012	0.72	2.92
16	15.162	4.250	-1.230	1.051	1088.3	1406.6	541.0	84.7	0.982	0.945	0.999	0.109	0.944	0.036	0.012	0.71	2.20
17	15.828	4.250	-1.230	1.054	1090.0	1406.9	542.0	84.6	1.015	0.970	1.000	0.060	0.969	0.028	0.016	0.93	1.64
18	16.494	4.250	-1.230	1.051	1087.7	1406.5	540.8	84.5	1.043	0.994	0.999	0.011	0.993	0.021	0.027	1.53	1.71
19	17.160	4.250	-1.230	1.050	1087.0	1406.8	540.6	84.6	1.111	1.047	0.999	-0.095	1.045	0.015	0.055	3.00	0.62
20	17.826	4.250	-1.230	1.053	1089.3	1407.8	541.9	84.7	1.155	1.078	0.997	-0.159	1.075	0.017	0.081	4.29	0.93
21	18.492	4.250	-1.230	1.048	1085.3	1405.4	539.2	84.7	1.089	1.032	0.996	-0.069	1.030	0.036	0.060	3.36	2.02
22	19.158	4.250	-1.230	1.053	1089.6	1409.8	542.3	84.7	1.063	1.008	0.998	-0.018	1.006	0.037	0.047	2.66	2.13
23	19.824	4.250	-1.230	1.054	1090.7	1407.8	542.6	84.7	1.063	1.006	0.998	-0.015	1.005	0.036	0.045	2.55	2.03

DATE 9-MAR-78 PROJECT NO P41C-NOC

ASD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA

TC-532 923 2.998 5.00

CONFIG 21 SURVEY ALFAS 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	3.500	-2.730	1.048	1084.9	1407.3	539.8	84.7	1.123	1.058	0.997	-0.118	1.054	0.005	0.094	5.10	0.29
2	10.533	3.500	-2.730	1.053	1090.0	1409.4	542.8	84.9	1.103	1.039	0.997	-0.080	1.035	0.009	0.091	5.03	0.48
3	11.166	3.500	-2.730	1.053	1089.7	1408.3	542.2	84.9	1.046	0.995	0.998	0.008	0.992	0.017	0.076	4.40	0.98
4	11.499	3.500	-2.730	1.053	1089.4	1409.0	542.4	84.9	1.029	0.982	0.998	0.008	0.979	0.022	0.070	4.09	1.30
5	11.832	3.500	-2.730	1.053	1090.0	1410.3	543.1	84.9	1.015	0.970	0.998	0.059	0.967	0.026	0.064	3.75	1.55
6	12.165	3.500	-2.730	1.051	1087.7	1408.7	541.5	84.8	1.010	0.958	0.999	0.052	0.966	0.029	0.057	3.39	1.69
7	12.498	3.500	-2.730	1.050	1087.0	1405.6	540.0	84.8	0.998	0.959	1.000	0.081	0.958	0.030	0.052	3.09	1.81
8	12.831	3.500	-2.730	1.050	1087.7	1407.0	540.8	85.0	0.995	0.956	1.000	0.085	0.954	0.032	0.047	2.80	1.92
9	13.164	3.500	-2.730	1.053	1089.8	1409.0	542.5	84.9	0.995	0.954	0.999	0.091	0.953	0.032	0.041	2.47	1.95
10	13.497	3.500	-2.730	1.053	1089.9	1408.6	542.4	84.9	0.995	0.954	0.999	0.091	0.953	0.032	0.037	2.24	1.52
11	13.830	3.500	-2.730	1.053	1089.8	1406.9	541.7	85.0	0.995	0.954	1.000	0.092	0.953	0.031	0.033	2.01	1.86
12	14.163	3.500	-2.730	1.050	1087.6	1408.0	541.2	84.9	0.994	0.955	0.999	0.088	0.954	0.029	0.030	1.82	1.77
13	14.496	3.500	-2.730	1.052	1088.8	1409.7	542.4	84.9	1.000	0.959	0.999	0.080	0.958	0.028	0.029	1.70	1.68
14	14.829	3.500	-2.730	1.052	1089.3	1407.9	541.9	85.0	1.000	0.959	0.999	0.082	0.958	0.026	0.028	1.59	1.57
15	15.162	3.500	-2.730	1.053	1089.5	1408.3	542.2	84.9	1.006	0.963	1.000	0.073	0.953	0.024	0.028	1.55	1.46
16	15.495	3.500	-2.730	1.052	1088.4	1408.7	541.3	84.8	1.007	0.965	0.999	0.069	0.964	0.022	0.029	1.70	1.33
17	15.828	3.500	-2.730	1.052	1089.1	1407.7	541.7	84.9	1.012	0.969	0.999	0.061	0.968	0.020	0.029	1.72	1.12
18	16.161	3.500	-2.730	1.054	1090.2	1408.1	542.4	84.9	1.026	0.980	0.999	0.040	0.979	0.019	0.032	1.54	1.10
19	16.494	3.500	-2.730	1.049	1086.4	1406.6	540.8	85.0	1.035	0.989	0.999	0.020	0.988	0.018	0.036	2.09	1.03
20	16.827	3.500	-2.730	1.049	1086.9	1408.0	540.8	85.0	1.044	0.995	0.999	0.008	0.994	0.017	0.042	2.41	0.96
21	17.160	3.500	-2.730	1.054	1090.7	1408.8	542.9	84.9	1.064	1.008	0.999	-0.016	1.006	0.015	0.047	2.87	0.86
22	17.493	3.500	-2.730	1.051	1088.5	1408.7	541.8	85.1	1.078	1.021	0.999	-0.043	1.019	0.015	0.053	2.99	0.82
23	17.826	3.500	-2.730	1.052	1088.6	1408.3	541.7	84.9	1.095	1.034	0.999	-0.068	1.032	0.015	0.061	3.30	0.81
24	18.159	3.500	-2.730	1.053	1089.7	1407.7	542.0	84.8	1.113	1.046	0.999	-0.093	1.044	0.016	0.068	3.74	0.85
25	18.492	3.500	-2.730	1.053	1089.5	1408.4	542.1	85.0	1.124	1.055	0.998	-0.111	1.052	0.018	0.075	4.06	1.00
26	18.825	3.500	-2.730	1.053	1089.8	1408.2	542.2	85.0	1.132	1.060	0.998	-0.123	1.057	0.022	0.080	4.34	1.17
27	19.158	3.500	-2.730	1.051	1087.8	1408.1	541.4	84.8	1.121	1.054	0.998	-0.110	1.050	0.029	0.079	4.27	1.25
28	19.491	3.500	-2.730	1.054	1090.7	1410.2	543.3	85.1	1.069	1.027	0.996	-0.059	1.025	0.029	0.064	3.55	1.63

DATE 9-MAR-78 PROJECT NO P41C-N0C

AFO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARPCOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

TC-332 921 2.999 5.00 21

SURVEY ALFAS
902 5.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ANL	SWL
1	10.500	3.500	-1.980	1.049	1086.6	1407.2	540.5	84.7	1.119	1.054	0.998	-0.109	1.049	0.006	0.096	5.21	0.31
2	10.833	3.500	-1.980	1.051	1088.1	1407.0	541.1	84.7	1.081	1.023	0.998	-0.048	1.019	0.015	0.086	4.82	0.53
3	11.166	3.500	-1.980	1.052	1088.8	1406.5	541.1	84.9	1.032	0.985	0.998	0.028	0.981	0.024	0.078	4.52	1.39
4	11.499	3.500	-1.980	1.054	1090.0	1408.9	542.7	84.7	1.008	0.964	0.998	0.069	0.961	0.030	0.071	4.21	1.79
5	11.832	3.500	-1.980	1.052	1089.0	1407.3	541.6	84.7	1.000	0.959	0.998	0.081	0.956	0.035	0.064	3.83	2.00
6	12.165	3.500	-1.980	1.053	1089.2	1408.1	542.0	84.7	0.986	0.947	0.999	0.104	0.945	0.039	0.056	3.41	2.36
7	12.498	3.500	-1.980	1.053	1089.5	1407.2	541.7	84.8	0.980	0.942	0.999	0.114	0.940	0.041	0.049	2.96	2.49
8	12.831	3.500	-1.980	1.052	1088.8	1408.2	541.8	84.8	0.971	0.936	0.998	0.126	0.934	0.042	0.040	2.47	2.55
9	13.164	3.500	-1.980	1.053	1089.6	1408.4	542.2	85.0	0.972	0.936	0.999	0.128	0.934	0.042	0.034	2.08	2.55
10	13.497	3.500	-1.980	1.053	1089.3	1408.5	542.1	84.9	0.973	0.937	0.999	0.125	0.936	0.040	0.028	1.73	2.42
11	13.830	3.500	-1.980	1.050	1087.1	1407.6	540.9	84.7	0.977	0.942	0.999	0.115	0.941	0.037	0.024	1.49	2.26
12	14.163	3.500	-1.980	1.051	1087.7	1406.7	540.8	84.7	0.980	0.944	0.999	0.111	0.943	0.035	0.022	1.23	2.10
13	14.496	3.500	-1.980	1.051	1088.2	1407.2	541.2	84.7	0.989	0.951	0.999	0.098	0.950	0.031	0.020	1.21	1.90
14	14.829	3.500	-1.980	1.053	1089.8	1406.7	541.8	84.7	0.997	0.955	0.999	0.088	0.955	0.029	0.020	1.18	1.72
15	15.162	3.500	-1.980	1.050	1086.7	1407.2	540.8	84.6	0.997	0.958	0.999	0.082	0.958	0.026	0.021	1.24	1.54
16	15.495	3.500	-1.980	1.050	1086.9	1407.5	540.8	84.6	1.005	0.964	0.999	0.070	0.964	0.024	0.022	1.34	1.30
17	15.828	3.500	-1.980	1.051	1088.1	1406.1	540.8	84.7	1.015	0.972	0.999	0.058	0.971	0.021	0.024	1.35	1.23
18	16.161	3.500	-1.980	1.053	1089.6	1407.1	541.8	84.7	1.031	0.983	0.999	0.034	0.982	0.019	0.027	1.60	1.12
19	16.494	3.500	-1.980	1.054	1090.5	1406.4	541.9	84.7	1.042	0.991	0.999	0.018	0.990	0.018	0.033	1.89	1.02
20	16.827	3.500	-1.980	1.051	1088.0	1406.5	540.9	84.8	1.066	1.011	1.000	-0.023	1.010	0.016	0.042	2.37	0.84
21	17.160	3.500	-1.980	1.053	1089.8	1407.3	542.0	84.7	1.083	1.023	0.998	-0.047	1.021	0.014	0.050	2.81	0.81
22	17.493	3.500	-1.980	1.050	1086.6	1405.1	539.9	84.5	1.104	1.042	1.000	-0.084	1.040	0.014	0.059	3.26	0.76
23	17.826	3.500	-1.980	1.052	1088.4	1408.1	541.7	84.7	1.121	1.053	0.998	-0.108	1.051	0.016	0.069	3.74	0.58
24	18.159	3.500	-1.980	1.051	1087.8	1407.4	541.2	84.5	1.131	1.061	0.997	-0.125	1.058	0.019	0.075	4.07	1.32
25	18.492	3.500	-1.980	1.053	1089.8	1406.8	540.4	84.7	1.130	1.061	0.997	-0.125	1.058	0.024	0.078	4.19	1.32
26	18.825	3.500	-1.980	1.052	1086.6	1407.3	541.4	84.8	1.110	1.045	0.997	-0.093	1.042	0.030	0.067	3.70	1.67
27	19.158	3.500	-1.980	1.044	1086.4	1407.0	540.3	84.7	1.059	1.007	0.997	-0.019	1.005	0.031	0.055	3.12	1.78
28	19.491	3.500	-1.980	1.052	1089.0	1407.7	541.8	84.7	1.060	1.006	0.999	-0.014	1.004	0.030	0.051	2.92	1.72

DATE 9-WAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SYNERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

TC-532 922 3.000 5.00 21

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
5	10.500	3.500	-1.230	1.049	1086.3	1408.3	540.8	84.8	1.115	1.050	0.997	-0.104	1.046	0.008	0.096	5.27	0.43
6	10.833	3.500	-1.230	1.053	1089.4	1406.7	541.6	84.7	1.053	1.000	0.998	-0.002	0.996	0.022	0.087	5.01	1.25
7	11.166	3.500	-1.230	1.054	1090.4	1407.7	542.4	84.8	1.011	0.960	0.998	0.004	0.962	0.032	0.081	4.84	1.91
8	11.500	3.500	-1.230	1.051	1087.9	1407.1	541.1	84.7	0.989	0.951	0.999	0.006	0.947	0.041	0.076	4.59	2.49
9	11.833	3.500	-1.230	1.052	1089.1	1408.6	542.1	84.8	0.970	0.935	0.998	0.008	0.931	0.051	0.066	4.06	3.11
10	12.166	3.500	-1.230	1.049	1086.1	1406.2	539.9	84.6	0.952	0.923	0.999	0.015	0.919	0.057	0.053	3.31	3.55
11	12.498	3.500	-1.230	1.050	1087.1	1407.9	541.0	84.7	0.943	0.914	0.999	0.017	0.911	0.060	0.040	2.52	3.76
12	12.831	3.500	-1.230	1.050	1087.3	1406.9	540.7	84.7	0.939	0.911	0.999	0.017	0.909	0.058	0.028	1.79	3.67
13	13.164	3.500	-1.230	1.051	1088.2	1407.7	541.3	84.9	0.940	0.911	0.999	0.017	0.909	0.055	0.019	1.20	3.44
14	13.497	3.500	-1.230	1.053	1089.3	1409.0	542.4	84.8	0.950	0.919	0.999	0.016	0.917	0.049	0.011	0.70	3.05
15	13.830	3.500	-1.230	1.049	1086.7	1407.4	540.5	84.9	0.956	0.926	0.999	0.016	0.925	0.043	0.008	0.51	2.65
16	14.163	3.500	-1.230	1.050	1087.3	1408.6	541.3	84.8	0.969	0.935	1.000	0.013	0.934	0.039	0.007	0.42	2.37
17	14.496	3.500	-1.230	1.053	1089.6	1409.6	542.7	84.9	0.981	0.943	1.000	0.007	0.943	0.034	0.006	0.39	2.07
18	14.829	3.500	-1.230	1.049	1086.7	1407.8	540.7	84.8	0.988	0.951	1.000	0.007	0.951	0.029	0.008	0.46	1.77
19	15.162	3.500	-1.230	1.051	1087.6	1409.5	541.8	84.9	0.997	0.958	0.998	0.002	0.958	0.026	0.010	0.62	1.58
20	15.495	3.500	-1.230	1.050	1087.3	1408.7	541.4	84.8	1.007	0.966	0.999	0.007	0.965	0.023	0.013	0.85	1.38
21	15.828	3.500	-1.230	1.052	1089.1	1408.9	542.2	84.9	1.025	0.978	0.999	0.002	0.978	0.020	0.016	0.56	1.19
22	16.161	3.500	-1.230	1.053	1090.0	1409.6	542.8	85.0	1.036	0.987	0.999	0.005	0.986	0.018	0.021	1.23	1.06
23	16.494	3.500	-1.230	1.049	1086.2	1407.9	540.6	84.7	1.037	0.998	0.999	0.002	0.998	0.016	0.029	1.67	0.93
24	16.827	3.500	-1.230	1.052	1089.0	1407.9	541.9	84.7	1.064	1.009	1.000	-0.019	1.009	0.014	0.039	2.20	0.79
25	17.160	3.500	-1.230	1.054	1090.3	1408.2	542.5	84.8	1.109	1.032	0.998	-0.056	1.041	0.012	0.055	3.05	0.68
26	17.493	3.500	-1.230	1.054	1090.2	1407.8	542.3	84.8	1.132	1.060	0.996	-0.122	1.054	0.013	0.069	3.71	0.71
27	17.826	3.500	-1.230	1.052	1088.6	1409.3	542.1	84.9	1.140	1.067	0.997	-0.137	1.064	0.018	0.076	4.07	0.92
28	18.159	3.500	-1.230	1.052	1088.8	1406.4	541.1	84.9	1.136	1.064	0.997	-0.131	1.061	0.024	0.076	4.10	1.36
29	18.492	3.500	-1.230	1.052	1089.0	1407.4	541.6	84.8	1.101	1.037	0.997	-0.079	1.035	0.031	0.061	3.36	1.72
30	18.825	3.500	-1.230	1.051	1087.9	1407.8	541.3	84.7	1.064	1.010	0.997	-0.023	1.008	0.033	0.052	2.97	1.35
31	19.158	3.500	-1.230	1.053	1090.1	1407.9	542.3	84.9	1.066	1.010	0.998	-0.021	1.008	0.032	0.049	2.75	1.80
32	19.491	3.500	-1.230	1.049	1086.1	1405.9	539.7	85.0	1.057	1.007	1.000	-0.013	1.005	0.030	0.046	2.60	1.69

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARC, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PAPT RX10-6 ALFA CONFIG

TC-532 524 2.999 5.00 21 905 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSDUC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VHL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	1.052	1089.2	1407.9	541.8	85.1	1.081	1.022	0.998	-0.046	1.018	0.021	0.091	5.09	1.17
2	11.156	2.750	-1.230	1.053	1089.8	1407.9	542.1	84.9	0.985	0.946	0.999	0.107	0.942	0.041	0.071	4.32	2.48
3	11.832	2.750	-1.230	1.053	1089.7	1408.3	542.2	84.9	0.943	0.913	0.999	0.174	0.910	0.052	0.045	2.80	3.24
4	12.498	2.750	-1.230	1.051	1088.5	1406.6	541.0	84.9	0.939	0.910	1.000	0.180	0.908	0.048	0.021	1.32	3.00
5	13.154	2.750	-1.230	1.049	1086.2	1408.1	540.7	84.7	0.950	0.921	0.999	0.158	0.920	0.037	0.008	0.47	2.32
6	13.310	2.750	-1.230	1.051	1088.1	1407.7	541.3	84.9	0.989	0.934	0.999	0.130	0.934	0.030	0.005	0.29	1.51
7	14.455	2.750	-1.230	1.053	1089.7	1408.3	542.3	84.7	0.993	0.952	0.999	0.094	0.952	0.024	0.006	0.37	1.42
10	15.152	2.750	-1.230	1.052	1088.9	1407.7	541.7	84.8	1.016	0.972	0.999	0.056	0.971	0.019	0.011	0.65	1.13
11	15.828	2.750	-1.230	1.048	1085.4	1407.1	539.9	84.7	1.017	0.976	0.999	0.047	0.975	0.016	0.018	1.03	0.92
13	16.494	2.750	-1.230	1.053	1089.9	1409.4	542.8	84.8	1.053	1.000	0.998	-0.002	0.999	0.014	0.031	1.79	0.80
14	17.160	2.750	-1.230	1.054	1090.5	1407.8	542.5	84.7	1.085	1.024	0.998	-0.051	1.023	0.017	0.051	2.88	0.95
15	17.826	2.750	-1.230	1.050	1086.9	1407.0	540.5	84.9	1.118	1.052	0.998	-0.107	1.050	0.022	0.069	3.74	1.19
16	18.492	2.750	-1.230	1.052	1088.6	1408.3	541.8	84.8	1.081	1.023	0.997	-0.049	1.021	0.029	0.058	3.24	1.62
17	19.158	2.750	-1.230	1.054	1090.8	1408.3	542.8	84.8	1.071	1.013	0.993	-0.028	1.011	0.028	0.050	2.83	1.59
18	19.824	2.750	-1.230	1.054	1091.1	1408.5	542.8	85.1	1.061	1.005	0.998	-0.012	1.004	0.025	0.046	2.63	1.50

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SYNERGIC CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

IC-532 925 2.999 5.00 21 SURVEY ALFAS

906 5.01

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	9.834	0.750	-2.208	1.051	1088.2	1407.2	541.2	84.8	1.099	1.037	0.998	-0.076	1.035	0.017	0.062	3.45	0.95
2	10.500	0.750	-2.208	1.053	1089.8	1408.1	542.3	84.8	1.076	1.017	0.997	-0.038	1.016	0.017	0.056	3.16	0.95
3	11.166	0.750	-2.208	1.053	1089.2	1407.5	541.8	84.8	1.015	0.971	0.999	0.057	0.970	0.014	0.042	2.48	0.81
4	11.832	0.750	-2.208	1.051	1087.9	1407.6	541.2	84.8	0.990	0.952	1.000	0.095	0.952	0.011	0.030	1.61	0.67
5	12.498	0.750	-2.208	1.052	1088.9	1407.3	541.5	84.9	0.985	0.947	0.999	0.105	0.947	0.009	0.022	1.26	0.56
6	13.164	0.750	-2.208	1.053	1089.7	1408.4	542.2	85.0	0.990	0.951	0.999	0.097	0.951	0.008	0.018	1.07	0.48
7	13.830	0.750	-2.208	1.053	1039.5	1409.7	542.6	85.0	1.002	0.960	0.999	0.078	0.960	0.007	0.015	0.90	0.41
8	14.496	0.750	-2.208	1.054	1090.5	1409.1	542.9	84.9	1.014	0.969	0.999	0.061	0.969	0.006	0.015	0.88	0.37
9	15.162	0.750	-2.208	1.053	1090.0	1408.3	542.3	85.0	1.027	0.980	0.999	0.040	0.979	0.006	0.015	0.70	0.34
10	15.828	0.750	-2.208	1.055	1091.5	1409.1	543.3	85.1	1.034	0.984	0.999	0.031	0.984	0.006	0.019	1.09	0.36
11	16.494	0.750	-2.208	1.052	1089.4	1408.9	542.2	85.1	1.042	0.992	0.999	0.015	0.992	0.007	0.024	1.40	0.42
12	17.160	0.750	-2.208	1.052	1088.7	1407.3	541.4	84.9	1.063	1.008	0.999	-0.018	1.008	0.010	0.032	1.83	0.56
13	17.826	0.750	-2.208	1.055	1091.1	1410.5	543.7	84.9	1.080	1.019	0.998	-0.041	1.019	0.013	0.038	2.15	0.72
14	18.492	0.750	-2.208	1.052	1089.3	1406.6	541.3	85.1	1.091	1.030	0.999	-0.060	1.029	0.016	0.043	2.37	0.87
15	19.158	0.750	-2.208	1.053	1089.9	1407.5	542.1	84.8	1.076	1.018	0.999	-0.037	1.017	0.015	0.039	2.21	0.56
16	19.824	0.750	-2.208	1.054	1090.5	1409.3	543.0	84.9	1.071	1.014	0.998	-0.030	1.013	0.015	0.037	2.06	0.83

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 528 3.001 5.00 21

SURVEY ALFAS
909 5.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	RAI	SAI
1	9.834	0.000	-3.708	1.052	1088.9	1409.3	541.3	85.1	1.119	1.052	0.998	-0.106	1.049	-0.002	0.080	4.36	-0.12
2	10.167	0.000	-3.708	1.051	1088.1	1407.9	541.3	85.1	1.112	1.047	0.998	-0.096	1.044	-0.002	0.080	4.37	-0.13
3	10.500	0.000	-3.708	1.052	1089.4	1408.8	542.2	85.0	1.109	1.044	0.997	-0.090	1.041	-0.003	0.079	4.35	-0.15
4	10.833	0.000	-3.708	1.053	1089.9	1408.9	542.5	85.0	1.099	1.035	0.998	-0.072	1.032	-0.003	0.077	4.28	-0.14
5	11.166	0.000	-3.708	1.054	1090.4	1409.3	542.8	85.1	1.093	1.000	0.998	-0.002	0.998	-0.003	0.063	3.60	-0.16
6	11.499	0.000	-3.708	1.052	1089.2	1409.0	542.2	85.0	1.025	0.978	0.998	0.041	0.977	-0.003	0.055	3.22	-0.15
7	11.832	0.000	-3.708	1.052	1089.0	1408.9	542.2	84.8	1.012	0.959	0.998	0.060	0.968	-0.003	0.048	2.87	-0.15
8	12.165	0.000	-3.708	1.053	1089.3	1407.5	541.8	84.9	1.009	0.956	0.999	0.067	0.965	-0.003	0.044	2.80	-0.16
9	12.498	0.000	-3.708	1.050	1087.7	1407.6	541.0	84.8	1.007	0.956	0.999	0.067	0.965	-0.003	0.039	2.31	-0.15
10	12.831	0.000	-3.708	1.051	1087.9	1407.0	541.0	84.8	1.006	0.955	1.000	0.070	0.964	-0.003	0.036	2.14	-0.16
11	13.164	0.000	-3.708	1.052	1088.9	1409.4	542.2	85.0	1.006	0.954	0.999	0.070	0.964	-0.003	0.034	2.00	-0.16
12	13.497	0.000	-3.708	1.053	1089.6	1408.1	542.1	84.9	1.006	0.963	0.999	0.072	0.963	-0.002	0.032	1.88	-0.14
13	13.830	0.000	-3.708	1.053	1090.0	1407.6	542.1	84.8	1.008	0.964	0.999	0.071	0.963	-0.003	0.030	1.80	-0.15
14	14.163	0.000	-3.708	1.051	1087.6	1406.2	540.5	84.8	1.003	0.963	0.999	0.073	0.962	-0.002	0.029	1.74	-0.14
15	14.496	0.000	-3.708	1.051	1088.3	1407.7	541.4	84.8	1.006	0.964	0.999	0.071	0.964	-0.002	0.028	1.67	-0.14
16	14.829	0.000	-3.708	1.053	1089.4	1408.0	542.0	84.8	1.012	0.966	0.999	0.062	0.968	-0.002	0.027	1.60	-0.15
17	15.162	0.000	-3.708	1.052	1088.6	1408.5	541.9	84.8	1.013	0.965	0.999	0.060	0.969	-0.002	0.027	1.51	-0.14
18	15.495	0.000	-3.708	1.051	1088.3	1408.9	541.9	84.8	1.013	0.970	0.999	0.059	0.969	-0.002	0.028	1.54	-0.15
19	15.828	0.000	-3.708	1.053	1089.6	1407.7	541.8	85.2	1.014	0.970	0.998	0.058	0.969	-0.002	0.029	1.74	-0.13
20	16.161	0.000	-3.708	1.053	1089.9	1408.1	542.2	85.0	1.025	0.978	0.999	0.044	0.977	-0.002	0.031	1.81	-0.14
21	16.494	0.000	-3.708	1.053	1089.9	1408.1	542.6	84.9	1.029	0.982	0.999	0.034	0.982	-0.002	0.034	1.96	-0.12
22	16.827	0.000	-3.708	1.052	1089.2	1407.5	541.7	84.9	1.034	0.986	0.999	0.027	0.985	-0.002	0.037	2.15	-0.13
23	17.160	0.000	-3.708	1.054	1090.7	1408.5	542.7	85.0	1.043	0.992	0.999	0.016	0.991	-0.002	0.040	2.30	-0.13
24	17.493	0.000	-3.708	1.052	1089.0	1408.5	542.0	85.0	1.052	1.000	0.999	-0.001	0.999	-0.002	0.044	2.50	-0.12
25	17.826	0.000	-3.708	1.054	1090.4	1408.0	542.7	85.1	1.064	1.006	0.998	-0.018	1.007	-0.002	0.046	2.74	-0.13
26	18.159	0.000	-3.708	1.049	1086.7	1409.3	541.2	85.0	1.076	1.021	0.999	-0.043	1.020	-0.002	0.052	2.94	-0.14
27	18.492	0.000	-3.708	1.049	1086.6	1408.5	540.8	85.2	1.054	1.027	0.999	-0.052	1.025	-0.002	0.057	3.19	-0.12
28	18.825	0.000	-3.708	1.051	1087.9	1409.4	541.8	85.0	1.093	1.033	0.998	-0.068	1.031	-0.002	0.060	3.31	-0.12
29	19.158	0.000	-3.708	1.053	1090.0	1408.9	542.3	85.1	1.101	1.037	0.998	-0.076	1.035	-0.002	0.062	3.43	-0.12
30	19.491	0.000	-3.708	1.054	1090.6	1409.5	543.1	85.0	1.104	1.039	0.998	-0.079	1.037	-0.002	0.063	3.46	-0.10

DATE 9-MAR-78 PROJECT NO P41C-NOC

AFG, INC.

AEC DIVISION

A SUPERGROUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART REMIO-6 ALFA CONFIC

TC-532 926 3.004 5.00 21

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

SURVEY ALFAS
907 5.01

POINT	X	Y	Z	M	VM	PT	Q	TT	MD	WVL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	0.000	-2.958	1.052	1088.7	1410.1	542.4	85.0	1.114	1.048	0.996	-0.100	1.046	-0.002	0.072	3.96	-0.08
2	10.167	0.000	-2.958	1.051	1088.0	1409.1	541.8	84.8	1.110	1.045	0.997	-0.094	1.043	-0.002	0.072	3.94	-0.10
3	10.500	0.000	-2.958	1.052	1089.2	1408.6	542.1	84.9	1.100	1.037	0.997	-0.077	1.035	-0.002	0.071	3.92	-0.11
4	10.833	0.000	-2.958	1.052	1089.0	1407.6	541.7	84.8	1.071	1.015	0.998	-0.032	1.013	-0.002	0.061	3.42	-0.12
5	11.166	0.000	-2.958	1.053	1089.3	1406.9	541.5	84.9	1.025	0.979	0.999	0.041	0.978	-0.002	0.051	2.98	-0.14
6	11.499	0.000	-2.958	1.053	1089.6	1409.5	542.7	84.8	1.005	0.962	0.998	0.073	0.961	-0.002	0.045	2.69	-0.14
7	11.832	0.000	-2.958	1.054	1090.5	1406.7	542.8	84.8	1.000	0.958	0.998	0.083	0.957	-0.003	0.040	2.41	-0.15
8	12.165	0.000	-2.958	1.052	1089.1	1406.5	541.3	84.8	0.996	0.956	1.000	0.088	0.955	-0.003	0.035	2.15	-0.16
9	12.498	0.000	-2.958	1.052	1089.0	1407.7	541.7	85.0	0.995	0.955	0.999	0.088	0.955	-0.002	0.032	1.92	-0.15
10	12.831	0.000	-2.958	1.053	1089.8	1408.4	542.3	84.9	0.996	0.955	0.999	0.088	0.955	-0.002	0.029	1.75	-0.15
11	13.164	0.000	-2.958	1.054	1090.4	1409.0	542.8	84.8	0.999	0.957	0.998	0.084	0.957	-0.002	0.026	1.58	-0.13
12	13.497	0.000	-2.958	1.050	1087.5	1407.4	542.9	84.9	1.001	0.961	1.000	0.077	0.961	-0.002	0.025	1.47	-0.13
13	13.830	0.000	-2.958	1.052	1089.1	1409.7	542.5	84.9	1.005	0.962	0.999	0.074	0.962	-0.003	0.023	1.37	-0.15
14	14.163	0.000	-2.958	1.053	1090.0	1409.1	542.5	85.2	1.004	0.962	0.999	0.075	0.961	-0.002	0.022	1.32	-0.14
15	14.496	0.000	-2.958	1.053	1090.2	1408.3	542.3	85.2	1.009	0.965	0.999	0.068	0.965	-0.002	0.021	1.24	-0.14
16	14.829	0.000	-2.958	1.054	1090.7	1409.4	543.1	84.9	1.014	0.969	0.999	0.061	0.969	-0.002	0.021	1.23	-0.13
17	15.162	0.000	-2.958	1.053	1089.9	1410.3	543.0	85.1	1.022	0.976	0.999	0.047	0.975	-0.002	0.021	1.24	-0.13
18	15.495	0.000	-2.958	1.053	1089.5	1408.7	542.3	85.0	1.017	0.972	0.999	0.055	0.972	-0.002	0.023	1.33	-0.12
19	15.828	0.000	-2.958	1.053	1091.1	1410.3	542.6	85.0	1.028	0.979	0.998	0.040	0.979	-0.002	0.024	1.40	-0.12
20	16.161	0.000	-2.958	1.050	1087.4	1408.2	541.2	84.7	1.025	0.980	0.999	0.039	0.979	-0.002	0.027	1.57	-0.12
21	16.494	0.000	-2.958	1.053	1089.4	1408.7	542.2	85.0	1.035	0.986	0.998	0.025	0.986	-0.002	0.028	1.65	-0.12
22	16.827	0.000	-2.958	1.050	1086.8	1408.7	541.1	84.8	1.041	0.993	0.999	0.013	0.992	-0.002	0.032	1.86	-0.09
23	17.160	0.000	-2.958	1.052	1089.2	1407.6	541.7	85.0	1.049	0.997	0.999	0.004	0.997	-0.002	0.036	2.07	-0.12
24	17.493	0.000	-2.958	1.053	1089.5	1407.9	542.0	84.8	1.059	1.005	0.999	-0.011	1.004	-0.002	0.039	2.24	-0.11
25	17.826	0.000	-2.958	1.053	1090.1	1408.1	542.3	85.0	1.071	1.014	0.999	-0.029	1.013	-0.002	0.043	2.46	-0.13
29	18.159	0.000	-2.958	1.052	1088.8	1406.3	542.2	85.0	1.061	1.022	0.998	-0.047	1.021	-0.002	0.047	2.64	-0.11
30	18.492	0.000	-2.958	1.054	1090.7	1410.3	543.4	85.0	1.092	1.029	0.997	-0.061	1.028	-0.002	0.051	2.83	-0.11
31	18.825	0.000	-2.958	1.055	1091.2	1408.5	543.0	84.9	1.099	1.034	0.998	-0.070	1.032	-0.002	0.052	2.90	-0.09
32	19.158	0.000	-2.958	1.051	1088.0	1407.8	541.2	85.0	1.093	1.033	0.999	-0.067	1.031	-0.001	0.052	2.90	-0.06
34	19.491	0.000	-2.958	1.054	1090.4	1410.0	543.2	84.9	1.084	1.023	0.997	-0.049	1.022	-0.001	0.048	2.70	-0.05

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A STEADY STATE COMBUSTION COMPANY

PROPELLANT WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-5 ALPHA

CONFIC 21

SURVEY ALFAS 908 5.01

DATE 2-22-78

AEDC PROPELLANT WIND TUNNEL

TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AWL	SWL
3	9.834	0.000	-2.208	1.048	1085.9	1409.4	540.9	85.0	1.094	1.036	0.998	-0.074	1.034	-0.002	0.650	2.76	-0.13
4	10.167	0.000	-2.208	1.051	1087.9	1409.3	541.8	85.0	1.089	1.030	0.997	-0.064	1.029	-0.002	0.651	2.83	-0.13
5	10.500	0.000	-2.208	1.050	1087.1	1408.4	541.1	84.9	1.079	1.022	0.998	-0.047	1.021	-0.002	0.648	2.87	-0.14
6	10.833	0.000	-2.208	1.052	1088.5	1408.3	541.7	84.9	1.054	1.000	0.997	-0.003	0.999	-0.003	0.642	2.98	-0.15
7	11.166	0.000	-2.208	1.051	1088.3	1408.0	541.5	84.9	1.024	0.979	0.999	0.041	0.978	-0.003	0.626	2.10	-0.17
8	11.499	0.000	-2.208	1.052	1088.3	1408.0	541.9	85.0	0.997	0.957	0.999	0.086	0.956	-0.003	0.622	1.90	-0.17
9	11.832	0.000	-2.208	1.053	1089.5	1408.3	542.2	84.9	0.989	0.950	0.999	0.099	0.950	-0.003	0.627	1.88	-0.19
10	12.165	0.000	-2.208	1.053	1089.9	1408.4	542.5	84.9	0.984	0.946	0.999	0.108	0.945	-0.003	0.624	1.47	-0.17
11	12.498	0.000	-2.208	1.055	1091.4	1408.5	543.4	85.1	0.985	0.945	0.999	0.108	0.945	-0.003	0.621	1.28	-0.19
12	12.831	0.000	-2.208	1.052	1089.1	1408.2	541.9	84.9	0.987	0.949	0.999	0.102	0.948	-0.003	0.619	1.13	-0.18
13	13.164	0.000	-2.208	1.052	1088.6	1408.8	542.0	84.7	0.993	0.953	0.999	0.092	0.953	-0.003	0.616	0.98	-0.18
14	13.497	0.000	-2.208	1.052	1088.7	1407.3	541.4	84.9	0.998	0.958	0.999	0.083	0.958	-0.003	0.615	0.87	-0.17
15	13.830	0.000	-2.208	1.052	1089.3	1407.8	541.8	85.0	1.004	0.962	1.000	0.077	0.962	-0.003	0.613	0.60	-0.16
16	14.163	0.000	-2.208	1.055	1091.2	1410.2	543.6	84.9	1.009	0.964	0.998	0.069	0.964	-0.003	0.613	0.77	-0.15
17	14.496	0.000	-2.208	1.051	1087.7	1407.7	541.1	84.9	1.008	0.966	0.999	0.065	0.966	-0.002	0.613	0.76	-0.14
18	14.829	0.000	-2.208	1.053	1089.3	1409.7	542.6	84.9	1.018	0.973	0.999	0.053	0.973	-0.002	0.613	0.78	-0.13
19	15.162	0.000	-2.208	1.053	1089.4	1408.7	542.3	84.9	1.026	0.979	0.999	0.040	0.979	-0.002	0.615	0.65	-0.11
20	15.495	0.000	-2.208	1.054	1090.8	1408.4	542.7	85.0	1.029	0.981	0.999	0.037	0.981	-0.002	0.616	0.71	-0.11
21	15.828	0.000	-2.208	1.052	1088.8	1408.0	541.7	84.8	1.031	0.984	0.999	0.032	0.983	-0.002	0.617	1.01	-0.11
22	16.161	0.000	-2.208	1.054	1090.2	1409.1	542.8	84.9	1.037	0.987	0.998	0.023	0.987	-0.002	0.619	1.11	-0.11
23	16.494	0.000	-2.208	1.049	1086.3	1408.2	540.6	85.1	1.039	0.993	0.999	0.014	0.992	-0.002	0.622	1.24	-0.12
24	16.827	0.000	-2.208	1.050	1087.4	1409.2	541.5	85.1	1.050	1.000	1.000	-0.001	1.000	-0.002	0.625	1.42	-0.11
25	17.160	0.000	-2.208	1.051	1088.1	1408.2	541.4	85.0	1.050	1.007	0.999	-0.015	1.007	-0.002	0.628	1.59	-0.11
26	17.493	0.000	-2.208	1.053	1089.7	1408.4	542.1	85.2	1.069	1.013	0.999	-0.026	1.012	-0.002	0.630	1.71	-0.10
27	17.826	0.000	-2.208	1.051	1088.5	1409.1	541.8	85.0	1.078	1.021	0.999	-0.042	1.020	-0.002	0.633	1.83	-0.10
28	18.159	0.000	-2.208	1.051	1088.5	1409.0	541.9	85.1	1.083	1.024	0.999	-0.050	1.024	-0.001	0.634	1.92	-0.07
29	18.492	0.000	-2.208	1.052	1089.5	1408.4	541.9	84.9	1.085	1.025	0.998	-0.053	1.025	-0.001	0.635	1.98	-0.08
30	18.825	0.000	-2.208	1.051	1088.5	1409.5	542.1	85.0	1.080	1.022	0.998	-0.048	1.022	-0.001	0.635	2.00	-0.01
31	19.158	0.000	-2.208	1.052	1089.4	1409.0	542.3	85.0	1.074	1.017	0.997	-0.036	1.016	0.000	0.634	1.93	0.00
32	19.491	0.000	-2.208	1.053	1089.4	1408.9	542.4	84.8	1.073	1.016	0.998	-0.033	1.015	-0.000	0.633	1.65	-0.02

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-332 939 3.000 5.00 21 910 5.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	9.834	-0.750	-2.208	1.053	1089.6	1407.9	542.0	85.0	1.093	1.031	0.998	-0.064	1.029	-0.022	0.060	3.35	-1.24
2	11.167	-0.750	-2.208	1.052	1089.2	1407.3	541.6	85.0	1.008	0.965	0.999	0.069	0.964	-0.019	0.042	2.51	-1.15
3	12.500	-0.750	-2.208	1.052	1089.3	1407.0	542.2	85.1	0.982	0.944	0.999	0.110	0.944	-0.015	0.023	1.42	-0.90
4	13.833	-0.750	-2.208	1.054	1090.8	1408.3	542.6	85.2	1.000	0.957	0.999	0.084	0.957	-0.011	0.016	0.96	-0.98
5	15.166	-0.750	-2.208	1.054	1091.0	1408.2	542.8	84.9	1.021	0.974	0.999	0.051	0.974	-0.010	0.016	0.94	-0.57
6	16.499	-0.750	-2.208	1.053	1089.8	1408.7	542.3	85.1	1.044	0.993	0.999	0.013	0.993	-0.012	0.025	1.44	-0.08

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARG. INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART REX10-0 ALFA

TC-832 930 2.999 5.00

SURVEY ALFAS 910 5.01

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTU/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
5	17.832	-0.750	-2.208	1.050	1087.8	1409.0	541.5	85.3	1.075	1.019	0.999	-0.040	1.018	-0.017	0.039	2.20	-0.93
7	19.165	-0.750	-2.208	1.053	1090.4	1410.0	543.0	85.2	1.076	1.018	0.998	-0.038	1.017	-0.017	0.039	2.20	-0.98
10	20.498	-0.750	-2.208	1.050	1087.9	1407.8	541.0	85.4	1.056	1.005	0.999	-0.010	1.004	-0.014	0.034	1.93	-0.79

DATE 9-MAR-78 PROJECT NO P41C-NOC
AND, INC.

AEDC DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-512 931 3,002 5.00 21 911 5.01

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ASL	SAL
1	10.500	-2.750	-1.230	1.051	1087.9	1409.2	541.8	84.9	1.079	1.022	0.997	-0.048	1.017	-0.026	0.094	5.30	-1.44
2	11.933	-2.750	-1.230	1.053	1090.2	1409.5	542.8	85.2	0.936	0.906	0.998	0.185	0.903	-0.036	0.045	2.82	-3.54
4	13.166	-2.750	-1.230	1.052	1089.3	1407.7	541.7	85.1	0.946	0.915	1.000	0.170	0.915	-0.041	0.008	0.52	-2.54
6	14.499	-2.750	-1.230	1.053	1089.7	1408.5	542.3	84.9	0.984	0.946	0.999	0.107	0.945	-0.026	0.006	0.36	-1.58
7	15.832	-2.750	-1.230	1.054	1090.4	1408.9	542.7	85.0	1.030	0.981	0.999	0.036	0.981	-0.020	0.017	1.02	-1.15
8	17.165	-2.750	-1.230	1.054	1090.8	1409.4	542.9	85.3	1.087	1.026	0.998	-0.054	1.024	-0.023	0.052	2.91	-1.26
11	18.498	-2.750	-1.230	1.056	1091.6	1407.6	541.0	85.0	1.068	1.014	0.998	-0.030	1.011	-0.032	0.053	3.12	-1.84
13	19.831	-2.750	-1.230	1.052	1089.1	1407.6	541.5	85.3	1.059	1.005	0.999	-0.011	1.004	-0.028	0.045	2.55	-1.59

DATE 8-MAR-78 PROJECT NO P41C-NOC

APG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-512 433 2.987 0.00 22 1001 0.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
7	10.500	4.250	-1.230	0.927	974.9	1434.4	495.3	79.7	0.923	0.996	1.000	0.007	0.996	0.007	-0.004	-0.25	0.40
8	11.166	4.250	-1.230	0.927	974.6	1436.7	496.0	79.5	0.917	0.991	1.000	0.017	0.991	0.010	-0.008	-0.44	0.58
9	11.832	4.250	-1.230	0.928	975.7	1437.8	497.0	79.5	0.913	0.986	0.999	0.026	0.986	0.014	-0.012	-0.70	0.80
10	12.498	4.250	-1.230	0.928	975.9	1437.1	496.8	79.7	0.911	0.984	0.999	0.031	0.984	0.016	-0.019	-1.13	0.91
11	13.164	4.250	-1.230	0.928	975.8	1434.8	495.9	79.7	0.910	0.983	1.000	0.033	0.983	0.015	-0.029	-1.70	0.89
12	13.830	4.250	-1.230	0.926	974.0	1435.7	495.2	79.8	0.906	0.982	0.999	0.035	0.980	0.022	-0.045	-2.55	1.31
13	14.496	4.250	-1.230	0.922	970.0	1434.5	492.5	79.7	0.969	1.043	1.000	-0.087	1.043	0.009	-0.043	-2.38	0.49
14	15.162	4.250	-1.230	0.927	974.4	1435.6	495.4	79.7	1.044	1.105	1.000	-0.210	1.105	-0.011	-0.021	-1.08	-0.54
15	15.828	4.250	-1.230	0.927	974.7	1436.0	495.7	79.9	1.010	1.075	0.999	-0.152	1.075	-0.016	-0.007	-0.39	-0.85
16	16.494	4.250	-1.230	0.925	973.6	1433.4	494.1	79.8	1.109	1.162	1.001	-0.323	1.160	-0.040	0.037	1.85	-1.99
17	17.160	4.250	-1.230	0.927	974.9	1435.7	495.7	79.8	0.945	1.017	0.997	-0.039	1.016	-0.023	0.045	2.53	-1.26
18	17.826	4.250	-1.230	0.927	974.6	1435.3	495.4	79.7	0.909	0.983	0.997	0.028	0.983	-0.015	0.036	2.13	-0.49
19	18.492	4.250	-1.230	0.925	973.0	1432.1	493.4	79.8	0.891	0.968	0.998	0.060	0.968	-0.013	0.023	1.38	-0.77
20	19.158	4.250	-1.230	0.926	973.8	1432.9	494.2	79.6	0.897	0.974	0.998	0.049	0.973	-0.011	0.015	0.89	-0.65
21	19.824	4.250	-1.230	0.927	974.4	1433.2	494.6	79.7	0.908	0.983	0.997	0.029	0.983	-0.010	0.011	0.64	-0.56

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 434 2.987 0.00 22 1005 0.01

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	0.926	974.3	1434.5	495.0	79.6	0.923	0.997	1.000	0.005	0.997	0.004	-0.007	-0.38	0.24
2	10.633	3.500	-2.730	0.924	972.4	1434.5	493.9	79.6	0.918	0.994	0.999	0.010	0.994	0.004	-0.009	-0.50	0.25
3	11.166	3.500	-2.730	0.925	973.4	1433.5	494.2	79.6	0.921	0.996	1.000	0.009	0.996	0.005	-0.016	-0.58	0.28
4	11.499	3.500	-2.730	0.927	974.5	1433.8	495.0	79.5	0.921	0.995	0.999	0.010	0.995	0.005	-0.012	-0.68	0.31
5	11.832	3.500	-2.730	0.925	973.3	1430.8	493.2	79.5	0.921	0.996	1.001	0.010	0.996	0.005	-0.014	-0.78	0.31
6	12.165	3.500	-2.730	0.927	974.4	1432.0	494.3	79.5	0.922	0.996	1.000	0.009	0.996	0.005	-0.015	-0.86	0.31
7	12.498	3.500	-2.730	0.925	973.2	1431.4	493.4	79.5	0.924	0.999	1.000	0.003	0.998	0.004	-0.017	-0.95	0.24
8	12.831	3.500	-2.730	0.925	973.3	1430.1	493.0	79.5	0.925	1.000	1.000	0.001	1.000	0.004	-0.018	-1.03	0.22
9	13.164	3.500	-2.730	0.927	974.6	1431.2	494.2	79.4	0.927	1.000	1.000	0.000	0.999	0.003	-0.020	-1.14	0.18
10	13.497	3.500	-2.730	0.927	974.5	1431.7	494.3	79.4	0.929	1.002	1.000	0.004	1.002	0.003	-0.022	-1.28	0.15
11	13.830	3.500	-2.730	0.926	973.4	1431.0	493.4	79.4	0.933	1.007	1.000	0.013	1.006	0.001	-0.025	-1.41	0.03
12	14.163	3.500	-2.730	0.927	974.4	1431.7	494.2	79.4	0.944	1.015	0.999	0.032	1.015	0.001	-0.026	-1.44	0.04
13	14.496	3.500	-2.730	0.925	972.9	1430.5	493.0	79.4	0.962	1.034	1.000	0.067	1.033	0.001	-0.022	-1.24	0.06
14	14.829	3.500	-2.730	0.925	973.1	1430.6	493.0	79.5	0.986	1.056	1.000	0.111	1.055	0.003	-0.017	-0.90	0.16
15	15.162	3.500	-2.730	0.925	972.7	1430.5	492.8	79.5	1.027	1.092	1.000	0.185	1.092	0.005	-0.009	-0.46	0.24
16	15.495	3.500	-2.730	0.926	973.9	1431.6	493.9	79.5	1.035	1.097	1.000	0.196	1.097	0.007	-0.002	-0.12	0.34
17	15.828	3.500	-2.730	0.924	972.0	1431.2	492.7	79.4	1.025	1.091	1.000	0.182	1.091	0.008	0.003	0.16	0.43
18	16.161	3.500	-2.730	0.926	974.1	1432.1	494.2	79.4	1.024	1.088	1.000	0.177	1.088	0.010	0.009	0.49	0.51
19	16.494	3.500	-2.730	0.925	973.2	1430.2	493.0	79.4	1.031	1.095	1.000	0.190	1.095	0.010	0.019	0.98	0.52
20	16.827	3.500	-2.730	0.925	972.4	1430.6	492.7	79.4	1.042	1.106	1.000	0.213	1.105	0.009	0.031	1.59	0.46
21	17.160	3.500	-2.730	0.926	973.7	1432.6	494.1	79.5	0.986	1.054	1.000	0.110	1.054	0.007	0.030	1.64	0.33
22	17.493	3.500	-2.730	0.926	973.7	1431.9	493.9	79.4	0.948	1.020	1.000	0.040	1.019	0.007	0.029	1.94	0.39
23	17.826	3.500	-2.730	0.926	974.0	1432.6	494.3	79.4	0.932	1.006	1.000	0.011	1.005	0.005	0.026	1.46	0.35
24	18.159	3.500	-2.730	0.924	972.0	1430.8	492.5	79.4	0.921	0.997	1.001	0.008	0.996	0.006	0.022	1.27	0.37
25	18.492	3.500	-2.730	0.926	973.6	1433.0	494.2	79.4	0.916	0.991	0.999	0.017	0.991	0.006	0.019	1.11	0.35
26	18.825	3.500	-2.730	0.925	973.1	1430.9	493.2	79.4	0.913	0.988	1.000	0.024	0.988	0.006	0.016	0.94	0.35
27	19.158	3.500	-2.730	0.928	975.1	1431.7	494.6	79.4	0.915	0.988	1.000	0.023	0.988	0.006	0.014	0.80	0.34
28	19.491	3.500	-2.730	0.924	972.3	1431.3	492.9	79.4	0.914	0.991	1.000	0.016	0.991	0.006	0.011	0.66	0.33

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARJ, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNCLO AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA

TC-532 435 2.984 0.00

CONFIG 22 SURVEY 1004 ALFA 0.01

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
2	10.500	3.500	-1.980	0.924	972.0	1433.7	493.5	79.4	0.920	0.996	0.999	0.007	0.996	0.005	-0.007	-0.42	0.30
3	10.833	3.500	-1.980	0.926	973.7	1431.7	493.9	79.3	0.919	0.993	1.000	0.014	0.993	0.006	-0.009	-0.54	0.36
4	11.166	3.500	-1.980	0.926	974.0	1431.0	493.8	79.4	0.916	0.991	0.999	0.018	0.990	0.007	-0.012	-0.67	0.39
5	11.499	3.500	-1.980	0.926	973.8	1432.0	494.0	79.4	0.916	0.991	0.999	0.018	0.990	0.008	-0.014	-0.80	0.45
6	11.832	3.500	-1.980	0.925	972.6	1431.2	493.0	79.4	0.915	0.991	1.000	0.018	0.991	0.008	-0.016	-0.92	0.44
7	12.165	3.500	-1.980	0.927	974.8	1432.3	494.7	79.4	0.918	0.991	1.000	0.017	0.991	0.007	-0.018	-1.05	0.42
8	12.498	3.500	-1.980	0.927	974.3	1431.6	494.2	79.3	0.918	0.992	1.000	0.015	0.992	0.006	-0.020	-1.17	0.36
9	12.831	3.500	-1.980	0.926	973.9	1430.8	493.7	79.3	0.920	0.994	1.000	0.011	0.994	0.005	-0.023	-1.30	0.30
10	13.164	3.500	-1.980	0.926	973.4	1431.4	493.6	79.3	0.921	0.995	1.000	0.009	0.995	0.004	-0.026	-1.47	0.23
11	13.497	3.500	-1.980	0.925	972.7	1430.8	493.0	79.3	0.919	0.994	1.000	0.012	0.994	0.003	-0.031	-1.79	0.16
12	13.830	3.500	-1.980	0.926	973.2	1430.9	493.3	79.3	0.924	0.998	1.000	0.004	0.997	0.002	-0.037	-2.12	0.09
13	14.163	3.500	-1.980	0.927	974.4	1431.6	494.3	79.3	0.939	1.011	0.999	-0.023	1.010	-0.000	-0.037	-2.09	-0.00
14	14.496	3.500	-1.980	0.924	971.6	1431.2	492.6	79.2	0.939	1.031	1.000	-0.082	1.041	-0.003	-0.030	-1.64	-0.14
15	14.829	3.500	-1.980	0.927	974.6	1431.3	494.4	79.1	1.028	1.091	1.000	-0.183	1.091	-0.006	-0.019	-1.00	-0.31
16	15.162	3.500	-1.980	0.928	975.5	1432.1	495.2	79.1	1.046	1.105	0.999	-0.211	1.105	-0.009	-0.008	-0.41	-0.45
17	15.495	3.500	-1.980	0.926	973.2	1431.7	493.7	79.2	1.033	1.096	1.000	-0.193	1.096	-0.011	-0.001	-0.05	-0.57
18	15.828	3.500	-1.980	0.925	972.9	1433.2	493.9	79.3	1.012	1.079	1.000	-0.158	1.079	-0.012	0.004	0.20	-0.65
19	16.161	3.500	-1.980	0.926	973.8	1433.9	494.7	79.3	1.025	1.089	1.000	-0.179	1.089	-0.013	0.012	0.66	-0.69
20	16.494	3.500	-1.980	0.925	972.9	1435.8	494.9	79.2	1.062	1.122	0.999	-0.246	1.122	-0.014	0.032	1.62	-0.71
21	16.827	3.500	-1.980	0.925	972.7	1437.0	495.2	79.1	1.068	1.127	1.000	-0.256	1.126	-0.012	0.046	2.35	-0.59
22	17.160	3.500	-1.980	0.925	972.9	1435.4	494.7	79.3	0.968	1.040	1.000	-0.079	1.039	-0.009	0.042	2.33	-0.48
23	17.493	3.500	-1.980	0.926	973.5	1435.8	495.2	79.3	0.935	1.009	0.999	-0.018	1.008	-0.008	0.036	2.06	-0.47
24	17.826	3.500	-1.980	0.924	971.9	1433.8	493.6	79.2	0.920	0.996	1.001	0.009	0.996	-0.009	0.032	1.86	-0.46
25	18.159	3.500	-1.980	0.926	973.6	1435.9	495.3	79.2	0.911	0.986	0.999	0.027	0.986	-0.007	0.027	1.58	-0.43
26	18.492	3.500	-1.980	0.926	973.4	1433.3	494.3	79.2	0.906	0.981	1.000	0.037	0.981	-0.008	0.023	1.34	-0.45
27	18.825	3.500	-1.980	0.925	972.6	1435.2	494.4	79.3	0.905	0.982	0.999	0.035	0.982	-0.007	0.019	1.10	-0.43
28	19.158	3.500	-1.980	0.926	973.9	1438.0	496.2	79.2	0.908	0.983	0.999	0.033	0.983	-0.008	0.015	0.90	-0.44
52	19.491	3.500	-1.980	0.929	976.4	1431.2	495.2	79.5	0.911	0.984	1.000	0.033	0.983	-0.007	0.014	0.60	-0.43

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

3 SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART FEX10-6 ALPHA CONFIG

TC-532 436 2.989 0.00 22 1002 0.01

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.926	973.4	1436.1	495.1	79.6	0.917	0.992	1.000	0.016	0.992	0.007	-0.006	-0.36	0.42
2	10.833	3.500	-1.230	0.926	973.7	1436.1	495.3	79.6	0.913	0.988	1.000	0.034	0.988	0.009	-0.009	-0.49	0.53
3	11.166	3.500	-1.230	0.924	972.1	1435.4	494.1	79.6	0.908	0.985	1.000	0.030	0.985	0.011	-0.011	-0.86	0.66
4	11.499	3.500	-1.230	0.925	972.6	1436.2	494.6	79.6	0.908	0.985	1.000	0.031	0.984	0.013	-0.015	-0.87	0.75
5	11.832	3.500	-1.230	0.923	970.9	1437.1	494.0	79.6	0.909	0.987	0.999	0.025	0.987	0.014	-0.020	-1.15	0.81
6	12.165	3.500	-1.230	0.924	972.6	1435.8	494.4	79.7	0.911	0.988	1.000	0.023	0.988	0.013	-0.025	-1.44	0.77
7	12.498	3.500	-1.230	0.926	973.8	1439.7	496.5	79.7	0.912	0.987	0.999	0.024	0.987	0.011	-0.028	-1.65	0.63
8	12.831	3.500	-1.230	0.927	974.7	1437.9	496.3	79.8	0.914	0.989	1.000	0.023	0.988	0.007	-0.031	-1.78	0.53
9	13.164	3.500	-1.230	0.929	976.6	1439.1	497.9	79.7	0.914	0.986	0.999	0.026	0.986	0.004	-0.034	-2.00	0.23
10	13.497	3.500	-1.230	0.927	974.6	1437.6	496.2	79.7	0.892	0.968	1.000	0.064	0.966	0.004	-0.055	-3.27	0.24
11	13.830	3.500	-1.230	0.927	974.6	1437.5	496.1	79.9	0.898	0.974	0.999	0.051	0.971	0.002	-0.070	-4.11	0.09
12	14.163	3.500	-1.230	0.926	974.4	1438.9	496.5	79.9	0.937	1.010	0.999	-0.021	1.008	-0.003	-0.064	-3.61	-0.18
13	14.496	3.500	-1.230	0.928	975.5	1439.0	497.2	79.8	1.025	1.087	1.000	-0.175	1.087	-0.010	-0.044	-2.31	-0.25
14	14.829	3.500	-1.230	0.924	972.0	1437.3	494.6	79.8	1.053	1.116	1.001	-0.231	1.115	-0.017	-0.026	-1.33	-0.86
15	15.162	3.500	-1.230	0.927	974.6	1438.6	496.6	79.7	1.042	1.103	1.000	-0.207	1.103	-0.020	-0.013	-0.65	-1.05
16	15.495	3.500	-1.230	0.927	975.3	1438.8	497.0	79.8	1.005	1.070	0.999	-0.141	1.070	-0.023	-0.005	-0.27	-1.24
17	15.828	3.500	-1.230	0.925	973.5	1437.4	495.5	79.7	1.001	1.068	1.000	-0.137	1.068	-0.024	0.001	0.07	-1.29
18	16.161	3.500	-1.230	0.926	973.8	1438.6	496.1	79.7	1.074	1.132	0.999	-0.266	1.132	-0.025	0.026	1.34	-1.28
19	16.494	3.500	-1.230	0.924	972.5	1436.9	495.7	79.9	1.145	1.193	0.999	-0.388	1.190	-0.031	0.091	4.38	-1.50
20	16.827	3.500	-1.230	0.928	975.8	1439.5	497.5	79.8	1.025	1.087	0.996	-0.181	1.085	-0.019	0.074	3.52	-1.02
21	17.160	3.500	-1.230	0.930	977.6	1432.2	495.9	80.0	0.922	0.993	0.993	0.002	0.991	-0.014	0.058	3.34	-0.63
22	17.493	3.500	-1.230	0.929	976.6	1434.0	496.0	79.9	0.916	0.988	0.994	0.014	0.987	-0.013	0.050	2.92	-0.78
23	17.826	3.500	-1.230	0.924	972.5	1434.7	493.9	79.9	0.902	0.980	0.996	0.034	0.979	-0.013	0.042	2.47	-0.75
24	18.159	3.500	-1.230	0.928	975.9	1436.4	496.4	80.0	0.894	0.969	0.996	0.055	0.968	-0.012	0.036	2.10	-0.72
25	18.492	3.500	-1.230	0.924	972.4	1438.4	495.0	80.0	0.888	0.966	0.997	0.051	0.966	-0.012	0.027	1.61	-0.72
26	18.825	3.500	-1.230	0.924	972.6	1437.5	494.9	79.9	0.891	0.969	0.997	0.057	0.969	-0.012	0.023	1.35	-0.71
27	19.158	3.500	-1.230	0.926	974.7	1438.8	496.5	80.0	0.897	0.973	0.995	0.046	0.973	-0.011	0.019	1.14	-0.67
28	19.491	3.500	-1.230	0.927	975.4	1437.1	496.3	80.0	0.903	0.978	0.995	0.036	0.978	-0.011	0.018	1.04	-0.60

DATE 8-MAR-78 PROJECT NO P4IC-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 438 2.998 0.00 22 1003 0.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
32	10.500	2.750	-1.230	0.927	974.9	1440.3	497.3	79.8	0.914	0.988	1.000	0.024	0.988	0.006	-0.009	-0.54	0.37
33	11.166	2.750	-1.230	0.926	974.0	1440.4	496.7	80.0	0.907	0.982	1.000	0.036	0.982	0.010	-0.019	-1.09	0.61
34	11.832	2.750	-1.230	0.923	971.4	1439.8	495.1	79.8	0.905	0.983	1.000	0.034	0.983	0.009	-0.026	-1.54	0.51
35	12.498	2.750	-1.230	0.926	974.1	1425.9	491.9	79.7	0.921	0.995	1.000	0.011	0.994	0.002	-0.032	-1.83	0.13
36	13.164	2.750	-1.230	0.923	971.6	1430.0	491.8	79.8	0.922	0.999	1.000	0.002	0.999	-0.005	-0.031	-1.79	-0.31
37	13.830	2.750	-1.230	0.927	975.2	1432.9	494.9	79.8	0.910	0.984	1.000	0.032	0.983	-0.024	-0.047	-2.74	-1.41
38	14.496	2.750	-1.230	0.925	973.0	1434.7	494.3	79.8	1.007	1.074	1.000	-0.149	1.073	-0.017	-0.038	-2.01	-0.89
39	15.162	2.750	-1.230	0.923	971.4	1439.8	495.0	79.9	1.042	1.107	0.999	-0.216	1.107	-0.007	-0.008	-0.39	-0.36
40	15.828	2.750	-1.230	0.928	976.3	1441.0	498.2	80.1	1.000	1.065	0.998	-0.134	1.065	-0.007	0.008	0.44	-0.35
41	16.494	2.750	-1.230	0.924	972.3	1440.5	495.7	80.1	1.118	1.172	1.000	-0.344	1.170	0.019	0.005	3.20	0.92
42	17.160	2.750	-1.230	0.928	976.5	1442.7	498.9	80.1	0.940	1.010	0.997	-0.026	1.009	0.010	0.057	3.22	0.55
43	17.826	2.750	-1.230	0.927	975.1	1443.0	498.2	80.1	0.906	0.981	0.997	0.033	0.980	0.003	0.044	2.56	0.15
44	18.492	2.750	-1.230	0.926	974.5	1439.6	496.7	80.1	0.891	0.967	0.997	0.061	0.967	-0.000	0.030	1.80	-0.03
45	19.158	2.750	-1.230	0.927	974.9	1441.4	497.5	80.2	0.898	0.974	0.997	0.048	0.973	-0.002	0.022	1.28	-0.10
46	19.824	2.750	-1.230	0.927	975.1	1439.2	496.8	80.1	0.908	0.982	0.997	0.031	0.982	-0.002	0.018	1.07	-0.14

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNGLO AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 444 2.987 0.00 22 1006 0.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
7	10.500	-2.750	-1.230	0.926	978.0	1452.1	500.7	84.5	0.916	0.991	1.000	0.018	0.991	-0.007	-0.009	-0.50	-0.51
8	11.833	-2.750	-1.230	0.926	978.8	1454.5	501.8	84.8	0.909	0.984	1.000	0.031	0.984	-0.008	-0.026	-1.53	-0.48
9	13.166	-2.750	-1.230	0.925	977.2	1457.3	501.9	84.7	0.925	1.000	1.000	-0.000	1.000	0.006	-0.029	-1.68	0.33
10	14.499	-2.750	-1.230	0.928	980.1	1457.7	503.8	84.7	1.012	1.076	1.000	-0.152	1.075	0.017	-0.034	-1.80	0.92
11	15.832	-2.750	-1.230	0.926	978.2	1458.9	503.1	84.6	1.020	1.085	0.999	-0.172	1.085	0.007	0.009	0.47	0.37
12	17.165	-2.750	-1.230	0.927	979.6	1458.7	503.8	84.7	0.942	1.013	0.998	-0.029	1.012	-0.011	0.051	3.02	-0.51
14	18.498	-2.750	-1.230	0.926	978.2	1459.2	503.2	84.7	0.892	0.969	0.998	0.058	0.968	-0.000	0.027	1.57	-0.01
16	19.831	-2.750	-1.230	0.923	976.2	1457.1	501.2	84.8	0.910	0.987	1.000	0.025	0.987	0.002	0.016	0.95	0.12

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-5

ALFA 2.00

CONFIG 22

VM 1001

PT 2.02

ALFAS

SURVEY

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

TC-532 445

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
9	10.500	4.250	-1.230	0.928	980.4	1456.8	503.6	84.7	0.920	0.993	1.000	0.015	0.992	0.010	0.037	2.16	0.55
10	11.166	4.250	-1.230	0.930	981.8	1458.6	505.0	84.7	0.912	0.984	0.999	0.031	0.983	0.015	0.036	2.07	0.88
11	11.832	4.250	-1.230	0.925	977.9	1458.0	502.5	84.8	0.902	0.978	1.000	0.043	0.977	0.023	0.032	1.66	1.32
12	12.498	4.250	-1.230	0.927	979.2	1460.0	504.0	84.8	0.892	0.968	0.999	0.062	0.967	0.031	0.023	1.34	1.66
13	13.164	4.250	-1.230	0.927	979.9	1458.7	503.9	84.8	0.883	0.958	1.000	0.084	0.958	0.037	0.006	0.36	2.22
14	13.830	4.250	-1.230	0.927	979.0	1457.9	503.1	84.8	0.887	0.963	1.000	0.074	0.962	0.045	-0.017	-1.00	2.67
15	14.496	4.250	-1.230	0.927	979.4	1459.9	503.9	85.0	0.939	1.011	1.000	-0.022	1.010	0.031	-0.018	-1.03	1.76
16	15.162	4.250	-1.230	0.928	980.0	1460.1	504.5	84.7	0.990	1.036	1.000	-0.112	1.056	0.012	-0.004	-0.23	0.65
18	15.828	4.250	-1.230	0.923	976.2	1459.7	502.0	85.0	0.986	1.058	1.000	-0.116	1.058	0.005	0.007	0.40	0.27
19	16.494	4.250	-1.230	0.929	981.1	1453.5	502.9	84.8	1.105	1.155	0.998	-0.314	1.154	-0.022	0.048	2.39	-1.11
21	17.160	4.250	-1.230	0.928	980.3	1455.9	503.1	85.0	0.958	1.028	0.998	-0.059	1.026	-0.005	0.058	3.24	-0.29
22	17.826	4.250	-1.230	0.926	978.5	1456.9	502.5	84.8	0.912	0.937	0.998	0.022	0.986	0.004	0.049	2.87	0.72
23	18.492	4.250	-1.230	0.928	980.7	1457.7	504.0	84.8	0.895	0.965	0.998	0.058	0.968	0.006	0.037	2.17	0.36
24	19.158	4.250	-1.230	0.928	980.3	1458.4	503.9	85.0	0.901	0.975	0.998	0.047	0.974	0.008	0.030	1.78	0.45
25	19.824	4.250	-1.230	0.929	981.1	1458.8	504.7	84.8	0.911	0.984	0.998	0.029	0.983	0.009	0.021	1.55	0.51

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA CONFIG

TC-532 449 2.996 2.00 22 SURVEY ALFAS

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	HL/VM	ARL	SWL
2	10.500	3.500	-2.730	0.922	975.1	1460.6	501.6	85.1	0.915	0.994	1.000	0.012	0.993	0.009	0.032	1.84	0.49
3	10.833	3.500	-2.730	0.922	975.0	1460.9	501.6	85.2	0.912	0.991	1.000	0.019	0.990	0.009	0.030	1.74	0.55
4	11.166	3.500	-2.730	0.922	975.5	1459.9	501.5	85.3	0.909	0.988	1.000	0.025	0.987	0.011	0.028	1.62	0.63
5	11.499	3.500	-2.730	0.923	975.9	1460.7	502.2	85.0	0.907	0.985	1.000	0.030	0.985	0.012	0.026	1.52	0.69
6	11.832	3.500	-2.730	0.923	976.0	1459.7	501.9	85.0	0.905	0.983	1.000	0.034	0.983	0.014	0.023	1.34	0.81
7	12.165	3.500	-2.730	0.924	977.1	1461.5	503.1	85.0	0.906	0.983	1.000	0.034	0.983	0.015	0.020	1.15	0.85
8	12.498	3.500	-2.730	0.924	977.2	1459.6	502.6	84.9	0.905	0.982	1.000	0.037	0.982	0.015	0.017	0.98	0.86
9	12.831	3.500	-2.730	0.925	978.3	1460.9	503.6	85.0	0.906	0.982	1.000	0.036	0.982	0.015	0.014	0.81	0.89
10	13.164	3.500	-2.730	0.926	978.7	1460.5	503.8	85.0	0.908	0.983	1.000	0.034	0.983	0.015	0.010	0.56	0.86
11	13.497	3.500	-2.730	0.926	978.9	1448.4	499.7	85.0	0.910	0.985	1.000	0.030	0.985	0.014	0.006	0.34	0.84
12	13.830	3.500	-2.730	0.925	978.2	1453.7	501.0	85.1	0.916	0.992	1.000	0.017	0.992	0.014	0.003	0.15	0.80
13	14.163	3.500	-2.730	0.926	978.9	1456.7	502.6	85.0	0.925	0.999	1.000	0.002	0.999	0.013	0.001	0.08	0.72
14	14.496	3.500	-2.730	0.927	979.8	1457.5	503.3	85.1	0.940	1.012	1.000	-0.023	1.012	0.012	0.003	0.16	0.66
15	14.829	3.500	-2.730	0.925	977.7	1458.1	502.4	84.9	0.954	1.027	1.000	-0.033	1.026	0.011	0.007	0.40	0.59
16	15.162	3.500	-2.730	0.926	978.7	1460.0	503.6	84.9	0.970	1.040	1.000	-0.080	1.040	0.009	0.012	0.64	0.51
17	15.495	3.500	-2.730	0.927	980.1	1459.9	504.3	85.0	0.977	1.045	1.000	-0.091	1.045	0.007	0.014	0.75	0.37
18	15.828	3.500	-2.730	0.929	981.3	1459.0	504.7	85.0	0.985	1.051	1.001	-0.101	1.051	0.006	0.017	0.95	0.31
19	16.161	3.500	-2.730	0.926	978.6	1457.9	502.6	85.3	0.992	1.060	1.001	-0.118	1.060	0.005	0.022	1.21	0.24
20	16.494	3.500	-2.730	0.926	979.4	1450.3	500.5	85.2	1.029	1.092	1.000	-0.185	1.091	0.003	0.031	1.63	0.17
21	16.827	3.500	-2.730	0.927	979.6	1454.6	502.3	84.9	1.048	1.108	1.000	-0.217	1.107	0.004	0.044	2.30	0.19
22	17.160	3.500	-2.730	0.926	978.3	1457.7	502.6	84.9	1.001	1.068	1.000	-0.137	1.067	0.005	0.046	2.49	0.29
23	17.493	3.500	-2.730	0.926	978.7	1457.1	502.5	85.1	0.953	1.025	1.000	-0.050	1.024	0.007	0.046	2.55	0.36
24	17.826	3.500	-2.730	0.928	980.4	1459.0	504.1	85.2	0.936	1.008	0.999	-0.017	1.007	0.007	0.042	2.39	0.37
25	18.159	3.500	-2.730	0.926	979.2	1459.8	503.7	85.2	0.925	0.999	1.000	0.002	0.998	0.007	0.039	2.23	0.38
26	18.492	3.500	-2.730	0.929	981.3	1459.3	504.7	85.2	0.921	0.994	1.000	0.014	0.993	0.007	0.036	2.08	0.39
27	18.825	3.500	-2.730	0.927	979.6	1450.3	500.6	85.2	0.915	0.990	0.999	0.020	0.989	0.007	0.033	1.92	0.39
28	19.158	3.500	-2.730	0.928	980.9	1454.2	502.8	85.2	0.917	0.989	1.000	0.021	0.989	0.007	0.031	1.80	0.39
29	19.491	3.500	-2.730	0.927	980.1	1454.5	502.4	85.1	0.918	0.991	1.001	0.020	0.991	0.007	0.029	1.69	0.41

DATE 8-MAR-78 PROJECT NO P41C-NOC

AFG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

APOLLO AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 438 2.997 2.00

CONFIG 22 SURVEY ALFAS 2.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
2	10.500	3.500	-1.980	0.924	977.3	1459.0	502.5	84.9	0.914	0.991	1.000	0.019	0.990	0.010	0.034	1.96	0.61
3	10.833	3.500	-1.960	0.924	977.0	1459.2	502.4	84.9	0.910	0.987	1.000	0.026	0.986	0.012	0.032	1.85	0.71
4	11.166	3.500	-1.980	0.925	977.4	1458.4	502.3	84.9	0.905	0.982	1.000	0.036	0.982	0.015	0.029	1.72	0.85
5	11.499	3.500	-1.980	0.925	978.1	1458.7	502.8	85.0	0.902	0.979	1.000	0.043	0.978	0.017	0.027	1.55	0.97
6	11.832	3.500	-1.980	0.925	977.4	1458.8	502.5	84.8	0.899	0.976	1.000	0.048	0.976	0.018	0.023	1.33	1.08
7	12.165	3.500	-1.980	0.923	976.1	1459.5	501.9	85.0	0.896	0.975	1.000	0.049	0.975	0.020	0.018	1.07	1.18
8	12.498	3.500	-1.980	0.922	975.3	1459.2	501.3	85.0	0.896	0.975	1.001	0.051	0.975	0.021	0.014	0.83	1.21
9	12.831	3.500	-1.980	0.922	975.0	1458.6	496.8	85.0	0.892	0.973	1.001	0.056	0.972	0.020	0.009	0.53	1.20
10	13.164	3.500	-1.980	0.925	977.8	1453.8	500.9	85.1	0.897	0.974	1.001	0.052	0.974	0.020	0.002	0.15	1.17
11	13.497	3.500	-1.980	0.926	978.5	1453.5	502.0	84.8	0.898	0.974	1.000	0.052	0.974	0.018	-0.005	-0.27	1.06
12	13.830	3.500	-1.980	0.927	980.1	1457.6	503.5	85.1	0.905	0.979	1.000	0.040	0.979	0.017	-0.011	-0.54	1.00
13	14.163	3.500	-1.980	0.924	977.2	1457.3	501.6	85.2	0.918	0.994	1.000	0.013	0.994	0.015	-0.013	-0.73	0.89
14	14.496	3.500	-1.980	0.925	978.5	1458.0	502.6	85.2	0.942	1.015	1.000	-0.030	1.015	0.014	-0.008	-0.45	0.77
15	14.829	3.500	-1.980	0.923	976.2	1459.5	501.9	85.0	0.970	1.042	1.000	-0.085	1.042	0.011	0.000	0.02	0.60
16	15.162	3.500	-1.980	0.925	978.2	1452.2	500.5	85.1	0.988	1.057	0.999	-0.115	1.057	0.009	0.007	0.38	0.51
17	15.495	3.500	-1.980	0.922	975.3	1453.4	499.3	84.9	0.980	1.053	1.000	-0.106	1.053	0.007	0.010	0.56	0.36
18	15.828	3.500	-1.980	0.924	976.7	1456.2	501.1	85.0	0.988	1.058	1.000	-0.116	1.058	0.005	0.014	0.77	0.26
19	16.161	3.500	-1.980	0.926	979.0	1458.1	503.0	85.2	1.023	1.087	1.000	-0.175	1.087	0.003	0.023	1.23	0.17
20	16.494	3.500	-1.980	0.927	979.5	1458.1	503.5	84.9	1.068	1.125	1.000	-0.251	1.124	0.001	0.042	2.16	0.07
21	16.827	3.500	-1.980	0.927	979.3	1458.5	503.4	84.9	1.084	1.139	1.000	-0.280	1.138	0.003	0.062	3.10	0.13
22	17.160	3.500	-1.980	0.927	979.6	1458.2	503.6	84.8	0.973	1.042	0.999	-0.085	1.040	0.006	0.056	3.11	0.34
23	17.493	3.500	-1.980	0.924	977.2	1460.1	502.7	85.0	0.939	1.013	1.000	-0.026	1.012	0.007	0.049	2.79	0.39
24	17.826	3.500	-1.980	0.926	979.0	1459.7	503.6	85.1	0.923	0.998	1.000	0.005	0.997	0.007	0.046	2.62	0.42
25	18.159	3.500	-1.980	0.928	980.3	1460.6	504.7	84.9	0.915	0.988	1.000	0.023	0.987	0.008	0.041	2.39	0.45
26	18.492	3.500	-1.980	0.927	979.4	1461.0	504.3	85.0	0.909	0.984	0.999	0.031	0.983	0.008	0.036	2.10	0.46
27	18.825	3.500	-1.980	0.927	979.3	1460.6	504.1	85.0	0.908	0.983	1.000	0.034	0.982	0.008	0.033	1.91	0.44
28	19.158	3.500	-1.980	0.927	980.1	1460.5	504.5	85.1	0.909	0.983	1.000	0.034	0.983	0.008	0.030	1.77	0.45
29	19.491	3.500	-1.980	0.927	980.2	1460.6	504.6	85.2	0.912	0.986	1.000	0.038	0.985	0.008	0.028	1.65	0.47

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST	PART	REX10-6	ALFA	CONFIG	SURVEY	ALFAS	DATE	AEDC PROPULSION WIND TUNNEL									
TC-532	446	2.983	2.00	22	1002	2.01	2-20-78	TRANSONIC 4T									
POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SWL
5	10.500	3.500	-1.230	0.925	977.4	1451.2	499.9	84.7	0.914	0.990	1.000	0.030	0.989	0.011	0.036	2.09	0.66
6	10.833	3.500	-1.230	0.926	978.2	1454.0	501.3	84.8	0.906	0.982	0.999	0.035	0.981	0.015	0.035	2.03	0.85
7	11.166	3.500	-1.230	0.926	978.8	1457.0	502.6	85.0	0.902	0.978	1.000	0.044	0.977	0.018	0.031	1.85	1.06
8	11.499	3.500	-1.230	0.926	978.7	1457.1	502.7	84.8	0.896	0.972	1.000	0.057	0.971	0.022	0.028	1.66	1.32
9	11.832	3.500	-1.230	0.928	980.1	1459.1	504.2	84.8	0.891	0.966	0.999	0.066	0.966	0.026	0.023	1.36	1.56
10	12.165	3.500	-1.230	0.925	977.5	1459.3	502.7	84.9	0.886	0.964	1.000	0.073	0.963	0.030	0.015	0.91	1.76
11	12.498	3.500	-1.230	0.926	979.0	1454.2	501.6	85.2	0.884	0.961	1.000	0.077	0.961	0.031	0.007	0.44	1.88
12	12.831	3.500	-1.230	0.926	979.1	1455.7	502.3	85.0	0.883	0.960	1.000	0.080	0.959	0.030	-0.001	-0.04	1.78
13	13.164	3.500	-1.230	0.927	979.3	1456.2	502.7	84.9	0.881	0.958	1.000	0.084	0.957	0.026	-0.010	-0.61	1.58
14	13.497	3.500	-1.230	0.926	978.7	1458.4	503.0	85.0	0.868	0.945	1.000	0.108	0.945	0.026	-0.033	-2.00	1.59
15	13.830	3.500	-1.230	0.927	979.9	1459.4	504.1	84.9	0.881	0.957	1.000	0.085	0.955	0.026	-0.047	-2.83	1.55
16	14.163	3.500	-1.230	0.928	980.2	1458.8	504.2	84.8	0.914	0.987	1.000	0.025	0.986	0.023	-0.043	-2.48	1.33
17	14.496	3.500	-1.230	0.927	979.2	1451.7	501.1	84.9	0.974	1.043	1.000	-0.086	1.043	0.017	-0.025	-1.39	0.95
18	14.829	3.500	-1.230	0.923	976.2	1454.3	500.2	84.9	0.999	1.068	0.999	-0.139	1.068	0.011	-0.012	-0.65	0.58
19	15.162	3.500	-1.230	0.924	976.6	1454.5	500.4	85.0	0.996	1.066	1.000	-0.132	1.066	0.008	-0.002	-0.13	0.41
20	15.495	3.500	-1.230	0.925	977.9	1456.7	501.9	85.2	0.987	1.056	1.000	-0.112	1.056	0.005	0.005	0.26	0.28
21	15.828	3.500	-1.230	0.928	980.1	1459.7	504.4	84.9	0.996	1.062	0.999	-0.125	1.062	0.002	0.009	0.47	0.12
22	16.161	3.500	-1.230	0.929	981.1	1459.1	504.8	84.7	1.075	1.130	1.000	-0.261	1.129	-0.001	0.035	1.78	-0.05
23	16.494	3.500	-1.230	0.926	978.1	1458.7	502.9	84.7	1.145	1.192	1.000	-0.383	1.187	-0.009	0.098	4.73	-0.41
24	16.827	3.500	-1.230	0.924	976.7	1459.6	502.2	85.1	1.029	1.095	0.998	-0.194	1.091	-0.000	0.069	4.65	-0.01
25	17.160	3.500	-1.230	0.925	978.1	1460.9	503.5	85.1	0.927	1.001	0.996	-0.009	0.999	0.005	0.066	3.78	0.28
26	17.493	3.500	-1.230	0.926	978.5	1458.7	503.1	84.8	0.917	0.992	0.996	0.010	0.990	0.007	0.060	3.48	0.41
27	17.826	3.500	-1.230	0.925	977.9	1460.5	503.4	84.8	0.906	0.982	0.996	0.028	0.981	0.008	0.052	3.05	0.47
28	18.159	3.500	-1.230	0.927	979.6	1459.7	504.0	85.0	0.896	0.971	0.996	0.051	0.970	0.008	0.046	2.69	0.49
29	18.492	3.500	-1.230	0.929	981.9	1461.3	505.8	85.1	0.893	0.967	0.996	0.059	0.966	0.009	0.038	2.28	0.51
30	18.825	3.500	-1.230	0.928	980.2	1449.1	500.7	85.0	0.894	0.969	0.996	0.054	0.969	0.009	0.034	2.00	0.51
31	19.158	3.500	-1.230	0.926	979.0	1452.7	501.2	85.0	0.900	0.976	0.997	0.043	0.975	0.008	0.031	1.81	0.49
32	19.491	3.500	-1.230	0.927	979.8	1456.6	502.9	85.2	0.906	0.980	0.996	0.033	0.980	0.009	0.029	1.68	0.52

DATE 8-VAR-78 PROJECT NO P41C-NOC

AFC, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALPHA

TC-532 447 2.997 2.00 22 1003 2.01

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
2	10.500	2.750	-1.230	0.925	977.8	1459.4	502.8	85.1	0.306	0.993	1.000	0.034	0.982	0.014	0.034	1.99	0.79
3	11.166	2.750	-1.230	0.926	978.8	1460.5	503.8	85.1	0.390	0.967	1.000	0.065	0.966	0.023	0.025	1.47	1.35
4	11.832	2.750	-1.230	0.927	979.5	1460.4	504.1	85.1	0.882	0.959	1.000	0.083	0.958	0.027	0.011	0.63	1.59
5	12.498	2.750	-1.230	0.927	979.7	1460.1	504.2	84.9	0.887	0.963	1.000	0.075	0.963	0.022	-0.005	-0.30	1.30
6	13.164	2.750	-1.230	0.926	978.7	1460.0	503.5	85.0	0.891	0.968	1.000	0.064	0.967	0.011	-0.013	-0.76	0.67
7	13.830	2.750	-1.230	0.927	979.7	1459.5	504.1	84.9	0.890	0.966	1.000	0.069	0.965	-0.007	-0.030	-1.78	-0.43
8	14.496	2.750	-1.230	0.928	980.3	1460.2	504.6	85.0	0.859	1.028	1.000	-0.057	1.028	-0.002	-0.027	-1.50	-0.10
9	15.162	2.750	-1.230	0.925	977.7	1460.6	503.1	85.1	1.007	1.074	1.000	-0.149	1.074	0.004	-0.002	-0.13	0.19
10	15.828	2.750	-1.230	0.926	979.1	1460.4	503.9	85.0	1.002	1.068	1.000	-0.137	1.068	0.003	0.005	0.50	0.15
11	16.494	2.750	-1.230	0.926	979.3	1459.9	503.8	85.1	1.124	1.173	1.000	-0.348	1.171	0.029	0.069	3.37	1.49
12	17.160	2.750	-1.230	0.925	978.0	1459.9	503.2	84.9	0.940	1.013	0.998	-0.029	1.011	0.020	0.062	3.50	1.11
13	17.826	2.750	-1.230	0.929	981.5	1460.3	505.3	85.0	0.309	0.982	0.997	0.032	0.980	0.014	0.050	2.92	0.80
15	18.492	2.750	-1.230	0.925	978.1	1457.8	502.6	84.8	0.893	0.970	0.998	0.057	0.969	0.011	0.036	2.13	0.66
17	19.158	2.750	-1.230	0.928	980.8	1453.1	502.4	85.1	0.301	0.975	0.996	0.044	0.974	0.009	0.028	1.64	0.55
18	19.824	2.750	-1.230	0.930	982.0	1456.4	504.3	84.9	0.310	0.982	0.996	0.030	0.982	0.009	0.025	1.47	0.53

DATE 8-MAR-78 PROJECT NO PAIC-NOC

ARG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-B ALFA

TC-332 450 2.999 2.00

SURVEY ALFAS 2.02

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
2	10.500	-2.750	-1.230	0.923	976.3	1461.2	502.5	85.1	0.904	0.982	1.000	0.036	0.981	-0.016	0.035	2.07	-0.96
3	11.833	-2.750	-1.230	0.925	978.3	1460.6	503.5	85.1	0.879	0.957	1.000	0.087	0.956	-0.027	0.008	0.45	-1.63
4	13.166	-2.750	-1.230	0.929	981.2	1461.0	505.3	85.1	0.892	0.966	1.000	0.067	0.966	-0.012	-0.012	-0.72	-0.73
6	14.499	-2.750	-1.230	0.926	979.1	1459.9	503.7	85.1	0.955	1.026	1.000	-0.051	1.026	0.003	-0.025	-1.39	0.19
7	15.832	-2.750	-1.230	0.928	980.3	1460.0	504.6	84.9	1.010	1.074	1.000	-0.148	1.074	-0.003	0.010	0.55	-0.18
8	17.165	-2.750	-1.230	0.928	980.1	1459.3	504.3	84.7	0.936	1.007	0.998	-0.017	1.005	-0.021	0.058	3.32	-1.16
10	18.498	-2.750	-1.230	0.924	976.4	1460.9	502.6	84.9	0.892	0.971	0.998	0.056	0.970	-0.011	0.033	1.93	-0.64
12	19.831	-2.750	-1.230	0.927	979.6	1460.5	504.2	85.1	0.912	0.986	0.998	0.025	0.986	-0.009	0.023	1.34	-0.52

DATE 8-MAR-78 PROJECT NO P41C-N0C

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-0 ALFA CONFIG SURVEY ALFAS

TC-532 457 3.004 5.00 1001 5.00

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
6	10.500	4.250	-1.230	0.928	981.5	1464.2	506.2	86.0	0.306	0.980	0.999	0.039	0.975	0.018	0.096	5.61	1.07
7	11.166	4.250	-1.230	0.927	981.0	1465.2	506.0	86.3	0.891	0.967	0.999	0.064	0.962	0.027	0.092	5.47	1.62
8	11.832	4.250	-1.230	0.922	976.6	1463.6	502.9	86.3	0.872	0.953	1.000	0.094	0.948	0.040	0.087	5.22	2.41
10	12.498	4.250	-1.230	0.924	978.3	1463.4	503.9	86.1	0.852	0.932	0.999	0.135	0.927	0.060	0.075	4.60	3.70
11	13.164	4.250	-1.230	0.925	979.3	1463.8	504.6	86.1	0.838	0.918	1.000	0.163	0.914	0.073	0.046	2.91	4.54
12	13.830	4.250	-1.230	0.928	981.1	1464.1	505.8	86.1	0.854	0.931	0.999	0.136	0.928	0.075	0.019	1.17	4.63
13	14.496	4.250	-1.230	0.926	979.8	1463.5	504.8	86.1	0.898	0.974	1.000	0.051	0.973	0.058	0.016	0.94	3.43
14	15.162	4.250	-1.230	0.926	979.6	1463.5	504.6	86.3	0.927	1.002	1.000	-0.002	1.001	0.042	0.022	1.26	2.38
15	15.828	4.250	-1.230	0.928	981.2	1464.5	506.0	86.1	0.947	1.018	1.000	-0.036	1.017	0.031	0.029	1.62	1.76
16	16.494	4.250	-1.230	0.924	978.3	1465.4	504.6	86.1	1.080	1.138	0.999	-0.279	1.136	0.001	0.070	3.53	0.04
17	17.160	4.250	-1.230	0.927	980.8	1465.0	505.8	86.3	0.962	1.032	1.000	-0.064	1.029	0.021	0.073	4.03	1.15
19	17.826	4.250	-1.230	0.927	980.3	1464.4	505.4	86.2	0.921	0.995	1.000	0.009	0.992	0.034	0.069	3.97	1.94
20	18.492	4.250	-1.230	0.929	982.1	1464.8	506.7	86.0	0.901	0.974	0.999	0.050	0.972	0.036	0.058	3.10	2.12
21	19.158	4.250	-1.230	0.929	982.7	1465.7	507.2	86.3	0.902	0.975	0.995	0.047	0.973	0.038	0.051	2.98	2.22
22	19.824	4.250	-1.230	0.929	982.3	1464.8	506.7	86.2	0.911	0.984	0.999	0.031	0.982	0.039	0.047	2.76	2.28

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 461 2.996 5.00 22

DATE 2-21-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	ML/VM	AL/VM	SWL
2	10.500	3.500	-2.730	0.924	978.1	1464.8	504.0	86.6	0.900	0.978	1.000	0.044	0.974	0.018	0.085	4.97	1.07
3	10.833	3.500	-2.730	0.924	978.2	1465.3	504.2	86.7	0.895	0.974	1.000	0.053	0.970	0.020	0.082	4.81	1.18
4	11.166	3.500	-2.730	0.924	978.5	1465.8	504.6	86.6	0.890	0.968	1.000	0.063	0.965	0.023	0.078	4.63	1.35
5	11.499	3.500	-2.730	0.925	979.1	1465.0	504.8	86.4	0.886	0.963	1.000	0.074	0.960	0.025	0.074	4.42	1.51
6	11.832	3.500	-2.730	0.926	979.8	1465.4	505.4	86.3	0.882	0.959	1.000	0.081	0.956	0.027	0.070	4.18	1.64
7	12.165	3.500	-2.730	0.927	980.5	1465.3	505.8	86.2	0.879	0.956	1.000	0.087	0.953	0.030	0.065	3.92	1.77
8	12.498	3.500	-2.730	0.926	980.2	1463.5	505.0	86.2	0.877	0.954	1.000	0.091	0.952	0.031	0.060	3.61	1.85
9	12.831	3.500	-2.730	0.926	979.8	1463.1	505.0	86.2	0.877	0.954	1.001	0.093	0.952	0.032	0.055	3.29	1.93
10	13.164	3.500	-2.730	0.927	980.9	1463.8	505.4	86.4	0.878	0.955	1.001	0.092	0.953	0.033	0.049	2.92	1.97
11	13.497	3.500	-2.730	0.929	982.1	1465.5	506.9	86.2	0.882	0.957	1.000	0.086	0.955	0.033	0.043	2.61	1.97
12	13.830	3.500	-2.730	0.929	982.6	1464.6	505.6	86.3	0.888	0.962	1.000	0.076	0.961	0.033	0.039	2.33	1.94
13	14.163	3.500	-2.730	0.923	977.4	1463.3	503.3	86.2	0.892	0.971	1.000	0.058	0.970	0.032	0.037	2.20	1.87
14	14.496	3.500	-2.730	0.925	979.0	1464.6	504.7	86.2	0.904	0.980	1.000	0.039	0.979	0.030	0.037	2.14	1.76
15	14.829	3.500	-2.730	0.925	978.8	1462.7	503.9	86.2	0.914	0.990	1.001	0.021	0.989	0.029	0.037	2.15	1.55
16	15.162	3.500	-2.730	0.928	981.5	1465.6	506.4	86.4	0.927	0.999	1.000	0.002	0.998	0.028	0.039	2.22	1.58
17	15.495	3.500	-2.730	0.928	981.6	1464.5	506.1	86.4	0.935	1.007	1.001	-0.013	1.006	0.026	0.041	2.31	1.49
20	15.828	3.500	-2.730	0.927	980.8	1464.7	506.3	86.5	0.945	1.017	0.999	-0.035	1.016	0.025	0.043	2.45	1.43
21	16.161	3.500	-2.730	0.924	978.4	1463.2	503.7	86.5	0.954	1.028	1.001	-0.053	1.026	0.024	0.046	2.68	1.34
22	16.494	3.500	-2.730	0.927	980.7	1465.9	506.0	86.4	0.981	1.049	1.000	-0.098	1.047	0.023	0.056	3.07	1.25
23	16.827	3.500	-2.730	0.925	979.3	1463.7	504.8	86.4	0.985	1.055	1.000	-0.110	1.053	0.023	0.065	3.52	1.28
24	17.160	3.500	-2.730	0.926	980.3	1465.4	505.4	86.8	0.963	1.034	1.000	-0.068	1.032	0.025	0.060	3.64	1.37
25	17.493	3.500	-2.730	0.927	980.9	1466.4	506.2	86.6	0.941	1.013	0.999	-0.028	1.011	0.026	0.065	3.70	1.44
26	17.826	3.500	-2.730	0.927	981.1	1465.3	506.0	86.5	0.932	1.005	1.000	-0.009	1.003	0.027	0.063	3.62	1.53
27	18.159	3.500	-2.730	0.926	980.3	1466.2	505.8	86.5	0.922	0.996	1.000	0.007	0.994	0.027	0.060	3.46	1.58
28	18.492	3.500	-2.730	0.928	981.9	1465.8	506.7	86.4	0.918	0.991	0.999	0.018	0.988	0.028	0.058	3.37	1.61
29	18.825	3.500	-2.730	0.926	979.7	1463.8	504.8	86.3	0.913	0.988	1.001	0.025	0.986	0.028	0.056	3.24	1.62
30	19.158	3.500	-2.730	0.929	983.0	1466.1	507.5	86.4	0.917	0.988	1.000	0.023	0.986	0.028	0.054	3.11	1.63
31	19.491	3.500	-2.730	0.928	981.6	1463.6	505.9	86.2	0.916	0.989	1.000	0.023	0.987	0.028	0.052	3.03	1.64

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA

TC-532 460 3.001 5.00

DATE 2-21-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
2	10.500	3.500	-1.980	0.923	977.7	1466.7	504.6	86.4	0.897	0.975	0.999	0.049	0.971	0.021	0.090	5.28	1.25
3	10.833	3.500	-1.980	0.925	978.7	1464.4	504.3	86.4	0.890	0.968	0.999	0.062	0.964	0.024	0.087	5.14	1.42
4	11.166	3.500	-1.980	0.924	978.0	1465.6	504.3	86.5	0.882	0.961	1.000	0.078	0.957	0.028	0.083	4.98	1.70
5	11.500	3.500	-1.980	0.924	978.0	1463.1	503.6	86.2	0.875	0.954	1.000	0.092	0.950	0.033	0.079	4.73	1.97
6	11.833	3.500	-1.980	0.925	979.3	1465.6	505.1	86.5	0.871	0.949	1.000	0.102	0.945	0.037	0.072	4.37	2.22
7	12.165	3.500	-1.980	0.925	979.3	1464.1	504.6	86.4	0.864	0.943	1.000	0.113	0.940	0.040	0.065	3.95	2.44
8	12.498	3.500	-1.980	0.926	979.9	1466.2	505.7	86.4	0.862	0.940	1.000	0.118	0.937	0.042	0.057	3.47	2.59
9	12.831	3.500	-1.980	0.926	980.1	1465.5	505.5	86.4	0.860	0.938	1.000	0.123	0.936	0.043	0.049	2.95	2.65
10	13.164	3.500	-1.980	0.927	980.4	1464.0	505.3	86.2	0.859	0.937	1.000	0.125	0.935	0.043	0.039	2.40	2.64
11	13.497	3.500	-1.980	0.927	981.0	1464.2	505.7	86.2	0.864	0.941	1.000	0.118	0.940	0.042	0.030	1.81	2.59
12	13.830	3.500	-1.980	0.926	980.1	1464.1	505.1	86.3	0.873	0.950	1.001	0.100	0.949	0.041	0.022	1.34	2.48
13	14.163	3.500	-1.980	0.927	981.1	1464.2	505.7	86.4	0.889	0.964	1.001	0.072	0.963	0.040	0.020	1.17	2.36
14	14.496	3.500	-1.980	0.929	982.3	1464.8	506.7	86.3	0.906	0.979	1.000	0.043	0.978	0.038	0.022	1.30	2.20
15	14.829	3.500	-1.980	0.930	983.3	1464.6	507.2	86.2	0.922	0.993	0.999	0.013	0.992	0.034	0.025	1.46	1.98
16	15.162	3.500	-1.980	0.927	980.7	1463.5	505.2	86.4	0.931	1.004	1.000	-0.007	1.003	0.032	0.030	1.69	1.85
17	15.495	3.500	-1.980	0.925	979.2	1466.0	505.2	86.3	0.938	1.012	1.000	-0.023	1.011	0.031	0.033	1.85	1.74
18	15.828	3.500	-1.980	0.926	980.1	1463.1	504.8	86.2	0.947	1.019	1.000	-0.038	1.018	0.029	0.036	2.04	1.60
19	16.161	3.500	-1.980	0.924	978.3	1463.6	504.0	86.2	0.974	1.046	1.001	-0.091	1.045	0.026	0.045	2.46	1.44
20	16.494	3.500	-1.980	0.926	979.5	1463.1	504.4	86.3	1.043	1.105	1.001	-0.210	1.103	0.025	0.065	3.35	1.29
21	16.827	3.500	-1.980	0.928	981.9	1466.1	506.9	86.3	1.032	1.093	1.000	-0.186	1.090	0.026	0.073	3.63	1.37
22	17.160	3.500	-1.980	0.926	979.8	1463.9	504.9	86.2	0.953	1.025	1.000	-0.049	1.022	0.028	0.069	3.84	1.59
23	17.493	3.500	-1.980	0.926	979.8	1465.2	505.3	86.3	0.938	1.011	0.999	-0.023	1.008	0.030	0.067	3.78	1.71
24	17.826	3.500	-1.980	0.923	976.9	1464.2	503.2	86.4	0.919	0.997	1.000	0.006	0.995	0.031	0.062	3.58	1.80
25	18.159	3.500	-1.980	0.924	978.0	1464.5	503.9	86.5	0.911	0.988	1.000	0.024	0.986	0.032	0.058	3.38	1.84
26	18.492	3.500	-1.980	0.926	980.3	1467.6	506.4	86.3	0.908	0.983	0.999	0.032	0.981	0.032	0.054	3.17	1.86
27	18.825	3.500	-1.980	0.928	982.0	1465.2	506.0	86.3	0.908	0.981	1.000	0.038	0.979	0.032	0.051	3.01	1.89
28	19.158	3.500	-1.980	0.926	980.4	1463.7	505.1	86.4	0.908	0.983	1.000	0.034	0.982	0.032	0.049	2.85	1.89
29	19.491	3.500	-1.980	0.927	981.0	1465.0	505.8	86.6	0.911	0.985	1.001	0.031	0.983	0.033	0.046	2.70	1.91

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 458 2.994 5.00 22 1002 5.01

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
2	10.500	3.500	-1.230	0.924	978.4	1462.1	503.5	86.2	0.895	0.973	1.000	0.055	0.968	0.021	0.094	5.53	1.27
3	10.833	3.500	-1.230	0.926	979.3	1464.2	504.8	86.0	0.887	0.964	1.000	0.072	0.959	0.027	0.091	5.42	1.59
4	11.166	3.500	-1.230	0.927	980.3	1465.0	505.7	86.1	0.878	0.955	0.999	0.088	0.950	0.033	0.087	5.23	2.01
5	11.499	3.500	-1.230	0.926	979.8	1463.4	504.7	86.3	0.865	0.943	1.000	0.113	0.938	0.044	0.086	5.21	2.70
6	11.832	3.500	-1.230	0.927	980.9	1464.6	505.6	86.5	0.854	0.932	0.999	0.134	0.927	0.053	0.076	4.67	3.25
7	12.165	3.500	-1.230	0.927	980.6	1465.1	505.7	86.3	0.845	0.923	1.000	0.152	0.919	0.058	0.064	4.01	3.64
8	12.498	3.500	-1.230	0.928	981.6	1464.7	506.3	86.2	0.838	0.916	1.000	0.166	0.913	0.061	0.050	3.12	3.83
9	12.831	3.500	-1.230	0.926	979.3	1466.4	503.8	86.4	0.834	0.914	0.999	0.170	0.911	0.061	0.035	2.19	3.90
10	13.164	3.500	-1.230	0.926	979.8	1465.4	505.4	86.3	0.833	0.912	1.000	0.174	0.910	0.058	0.020	1.23	3.62
11	13.497	3.500	-1.230	0.927	980.5	1465.2	505.8	86.1	0.829	0.907	1.000	0.183	0.906	0.058	-0.066	-0.37	3.05
12	13.830	3.500	-1.230	0.927	981.0	1463.9	505.6	86.3	0.851	0.928	1.001	0.144	0.926	0.057	-0.017	-1.04	3.55
13	14.163	3.500	-1.230	0.926	980.0	1463.8	503.9	86.4	0.886	0.963	1.001	0.076	0.961	0.056	-0.013	-0.75	3.32
14	14.496	3.500	-1.230	0.926	979.7	1464.2	504.8	86.4	0.916	0.992	1.001	0.018	0.990	0.052	0.002	0.13	2.99
15	14.829	3.500	-1.230	0.927	981.1	1465.6	505.2	86.4	0.935	1.007	1.000	-0.015	1.006	0.047	0.012	0.71	2.67
16	15.162	3.500	-1.230	0.924	977.8	1463.1	503.4	86.3	0.936	1.011	1.002	-0.020	1.010	0.044	0.018	1.04	2.51
17	15.495	3.500	-1.230	0.927	980.4	1465.0	505.6	86.3	0.947	1.019	1.000	-0.036	1.018	0.041	0.034	1.35	2.28
18	15.828	3.500	-1.230	0.925	978.7	1464.5	504.5	86.2	0.952	1.025	1.000	-0.050	1.024	0.037	0.029	1.61	2.08
19	16.161	3.500	-1.230	0.925	979.0	1462.9	503.1	86.1	1.056	1.117	1.000	-0.234	1.115	0.032	0.037	2.94	1.54
20	16.494	3.500	-1.230	0.927	980.5	1463.2	505.1	86.1	1.129	1.177	1.000	-0.355	1.171	0.024	0.117	5.72	1.19
21	16.827	3.500	-1.230	0.930	982.9	1461.9	506.9	86.0	0.975	1.041	0.998	-0.085	1.037	0.030	0.091	5.01	1.67
22	17.160	3.500	-1.230	0.926	980.1	1464.9	505.4	86.3	0.932	1.006	0.999	-0.014	1.002	0.036	0.076	4.45	2.03
23	17.493	3.500	-1.230	0.925	979.4	1463.2	503.9	86.1	0.921	0.997	0.999	0.005	0.993	0.038	0.072	4.16	2.17
24	17.826	3.500	-1.230	0.927	980.5	1464.3	505.5	86.1	0.911	0.985	0.999	0.027	0.982	0.040	0.066	3.84	2.31
25	18.159	3.500	-1.230	0.926	980.3	1464.2	505.2	86.4	0.902	0.978	0.999	0.043	0.975	0.040	0.060	3.50	2.34
26	18.492	3.500	-1.230	0.927	980.9	1464.9	505.9	86.3	0.897	0.972	0.999	0.055	0.970	0.040	0.054	3.18	2.34
27	18.825	3.500	-1.230	0.927	980.9	1465.5	505.9	86.6	0.898	0.973	0.999	0.052	0.971	0.040	0.049	2.87	2.36
28	19.158	3.500	-1.230	0.928	981.8	1465.0	506.4	86.4	0.902	0.976	0.999	0.047	0.974	0.039	0.045	2.72	2.31
29	19.491	3.500	-1.230	0.928	982.2	1465.0	506.5	86.6	0.907	0.980	0.999	0.037	0.978	0.039	0.044	2.55	2.31

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 459 2.996 5.00 22 1003 5.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-21-78

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
2	10.500	2.750	-1.230	0.922	976.3	1463.5	502.9	86.0	0.883	0.963	1.000	0.073	0.958	0.029	0.096	5.73	1.71
3	11.156	2.750	-1.230	0.924	978.0	1465.2	504.4	86.1	0.855	0.935	0.999	0.128	0.930	0.044	0.061	4.95	2.72
12	11.832	2.750	-1.230	0.925	979.1	1464.1	504.5	86.3	0.836	0.916	0.999	0.165	0.913	0.054	0.053	3.32	3.38
13	12.498	2.750	-1.230	0.925	979.2	1463.6	504.4	86.3	0.836	0.916	1.001	0.168	0.914	0.049	0.027	1.72	3.09
14	13.164	2.750	-1.230	0.928	981.3	1464.9	506.1	86.3	0.844	0.922	1.000	0.156	0.921	0.036	0.010	0.62	2.24
15	13.830	2.750	-1.230	0.926	980.5	1466.8	506.1	86.6	0.854	0.932	0.999	0.133	0.932	0.016	-0.015	-0.89	0.93
16	14.496	2.750	-1.230	0.925	978.7	1464.9	504.6	86.2	0.909	0.985	1.000	0.030	0.965	0.019	-0.014	-0.81	1.08
17	15.162	2.750	-1.230	0.927	980.3	1465.1	505.7	86.1	0.945	1.017	1.000	-0.035	1.017	0.022	0.004	0.24	1.54
18	15.828	2.750	-1.230	0.927	980.2	1465.7	505.8	86.1	0.958	1.029	0.999	-0.059	1.029	0.020	0.015	0.85	1.12
19	16.494	2.750	-1.230	0.928	981.4	1462.5	505.5	86.1	1.113	1.163	1.000	-0.325	1.159	0.031	0.076	3.87	2.52
20	17.160	2.750	-1.230	0.927	980.6	1464.9	505.8	86.2	0.939	1.011	0.999	-0.023	1.008	0.034	0.063	3.60	1.56
21	17.826	2.750	-1.230	0.928	982.1	1466.6	507.1	86.4	0.913	0.986	0.999	0.027	0.984	0.032	0.034	3.17	1.88
22	18.492	2.750	-1.230	0.925	978.9	1461.8	503.7	86.1	0.895	0.972	1.001	0.057	0.971	0.030	0.043	2.51	1.79
24	19.158	2.750	-1.230	0.928	981.3	1465.0	506.2	86.2	0.902	0.977	1.000	0.046	0.976	0.030	0.035	2.05	1.77
25	19.824	2.750	-1.230	0.928	981.8	1464.1	506.2	86.2	0.910	0.983	1.000	0.033	0.982	0.030	0.032	1.87	1.73

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 462 3.004 5.00 22 1006 5.00

DATE 2-21-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SMJ
2	10.500	-2.750	-1.230	0.926	980.3	1466.0	505.9	86.3	0.882	0.959	1.000	0.081	0.953	-0.032	0.097	5.82	-1.90
3	11.833	-2.750	-1.230	0.927	980.5	1466.7	506.2	86.4	0.832	0.911	1.000	0.176	0.908	-0.057	0.049	3.05	-3.57
4	13.166	-2.750	-1.230	0.926	980.5	1466.5	506.0	86.6	0.843	0.922	1.000	0.155	0.921	-0.035	0.008	0.51	-2.17
5	14.499	-2.750	-1.230	0.926	980.5	1466.9	506.2	86.5	0.908	0.983	0.999	0.033	0.983	-0.016	-0.011	-0.67	-0.92
7	15.832	-2.750	-1.230	0.923	977.9	1466.6	504.5	86.6	0.960	1.033	0.999	-0.068	1.033	-0.019	0.018	0.98	-1.07
8	17.165	-2.750	-1.230	0.929	982.5	1465.6	507.0	86.4	0.934	1.005	1.000	-0.010	1.002	-0.034	0.062	3.53	-1.95
10	18.498	-2.750	-1.230	0.926	980.3	1465.8	505.6	86.7	0.893	0.989	1.000	0.061	0.968	-0.027	0.038	2.23	-1.58
12	19.831	-2.750	-1.230	0.928	982.1	1466.9	507.2	86.5	0.911	0.984	0.999	0.031	0.983	-0.026	0.029	1.67	-1.54

DATE 9-MAR-78 PROJECT NO P41C-N0C

V ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 307 3.006 0.00 22 401 0.02

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
5	10.500	4.250	-2.730	0.954	998.8	1429.9	507.3	79.7	0.951	0.997	0.998	0.003	0.997	0.004	-0.007	-0.40	0.22
6	11.166	4.250	-2.730	0.953	998.0	1428.1	506.3	79.5	0.944	0.992	0.999	0.014	0.992	0.005	-0.009	-0.52	0.32
7	11.832	4.250	-2.730	0.950	996.1	1429.6	505.4	80.2	0.941	0.992	0.999	0.015	0.991	0.007	-0.012	-0.71	0.39
8	12.498	4.250	-2.730	0.951	996.7	1429.8	505.9	80.0	0.940	0.991	0.999	0.018	0.990	0.007	-0.015	-0.87	0.40
9	13.164	4.250	-2.730	0.952	997.8	1429.6	506.5	80.0	0.942	0.991	0.999	0.017	0.991	0.007	-0.020	-1.14	0.41
10	13.830	4.250	-2.730	0.954	998.8	1429.8	507.3	79.5	0.945	0.992	0.999	0.014	0.992	0.007	-0.025	-1.46	0.39
11	14.496	4.250	-2.730	0.950	996.1	1430.3	505.4	80.7	0.973	1.021	1.000	-0.042	1.020	0.004	-0.025	-1.41	0.22
12	15.162	4.250	-2.730	0.952	997.3	1429.5	506.1	80.1	1.037	1.075	0.999	-0.150	1.075	-0.002	-0.013	-0.68	0.13
13	15.828	4.250	-2.730	0.948	994.0	1429.2	504.0	80.4	1.064	1.101	0.999	-0.204	1.101	-0.010	0.005	0.24	0.51
14	16.494	4.250	-2.730	0.951	996.5	1431.2	506.1	80.4	1.061	1.096	0.999	-0.194	1.096	-0.013	0.011	0.58	0.68
15	17.160	4.250	-2.730	0.954	999.9	1431.4	508.1	80.3	1.112	1.134	0.999	-0.270	1.134	-0.019	0.029	1.44	0.96
16	17.826	4.250	-2.730	0.953	998.5	1431.9	507.5	80.4	0.946	0.994	0.997	0.007	0.993	-0.011	0.028	1.60	0.66
17	18.492	4.250	-2.730	0.952	998.1	1432.0	507.2	80.4	0.915	0.966	0.996	0.061	0.966	-0.010	0.018	1.06	0.59
18	19.158	4.250	-2.730	0.953	998.9	1430.4	507.1	80.5	0.921	0.971	0.996	0.052	0.971	-0.009	0.013	0.75	0.53
19	19.824	4.250	-2.730	0.953	998.5	1432.3	507.6	80.4	0.928	0.978	0.996	0.038	0.977	-0.009	0.009	0.50	0.50

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 308 3.001 0.00 22 402 0.01

DATE 2-18-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.980	0.949	994.9	1431.1	505.3	80.1	0.942	0.994	0.999	0.011	0.994	0.005	-0.007	-0.38	0.28
2	11.166	4.250	-1.980	0.950	995.6	1430.8	505.5	80.3	0.937	0.988	0.999	0.022	0.988	0.007	-0.009	-0.55	0.43
3	11.832	4.250	-1.980	0.951	996.8	1431.4	506.4	80.4	0.936	0.986	0.999	0.025	0.986	0.009	-0.013	-0.76	0.52
4	12.498	4.250	-1.980	0.952	997.6	1431.0	506.6	80.5	0.936	0.986	0.999	0.027	0.985	0.010	-0.018	-1.04	0.58
5	13.164	4.250	-1.980	0.953	998.6	1432.5	507.6	80.7	0.934	0.984	0.999	0.031	0.983	0.009	-0.024	-1.39	0.54
6	13.830	4.250	-1.980	0.954	999.2	1430.1	507.2	80.4	0.932	0.981	0.999	0.036	0.980	0.011	-0.033	-1.95	0.63
7	14.496	4.250	-1.980	0.952	998.0	1432.0	507.1	80.5	0.981	1.026	0.999	-0.053	1.025	0.005	-0.032	-1.80	0.30
8	15.162	4.250	-1.980	0.949	995.3	1431.6	505.4	80.7	1.059	1.096	0.999	-0.194	1.096	-0.007	-0.012	-0.64	-0.37
9	15.828	4.250	-1.980	0.951	996.9	1430.6	505.9	80.7	1.068	1.102	0.999	-0.205	1.102	-0.015	0.005	0.24	-0.77
10	16.494	4.250	-1.980	0.950	996.5	1432.1	506.1	81.0	1.086	1.117	0.998	-0.237	1.117	-0.018	0.014	0.72	-0.90
11	17.160	4.250	-1.980	0.951	997.5	1432.5	506.9	80.8	1.155	1.172	0.997	-0.346	1.170	-0.036	0.055	2.67	-1.75
12	17.826	4.250	-1.980	0.949	995.2	1431.7	505.4	80.6	0.909	0.964	0.995	0.063	0.964	-0.012	0.028	1.65	-0.72
13	18.492	4.250	-1.980	0.950	996.6	1432.9	506.5	80.8	0.906	0.960	0.995	0.072	0.960	-0.012	0.019	1.12	-0.69
14	19.158	4.250	-1.980	0.952	998.1	1431.5	506.9	80.9	0.911	0.964	0.994	0.063	0.963	-0.010	0.013	0.77	-0.62
15	19.824	4.250	-1.980	0.951	997.6	1433.8	507.5	80.7	0.920	0.972	0.994	0.046	0.972	-0.010	0.009	0.50	-0.58

DATE 9-MAR-78 PROJECT NO P4IC-N0C

APU, INC.

AEDC DIVISION

A SVENORUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 309 2.997 0.00 22 403 0.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	10.500	4.250	-1.230	0.947	993.4	1431.9	504.5	80.5	0.937	0.991	0.999	0.017	0.991	0.006	-0.006	-0.32	0.35
2	11.166	4.250	-1.230	0.949	995.4	1434.3	506.2	81.1	0.932	0.985	0.998	0.027	0.985	0.010	-0.008	-0.49	0.57
3	11.832	4.250	-1.230	0.948	994.6	1431.1	504.8	80.8	0.926	0.980	0.999	0.037	0.980	0.013	-0.013	-0.74	0.77
4	12.498	4.250	-1.230	0.950	996.0	1432.4	506.1	80.7	0.925	0.978	0.999	0.042	0.978	0.016	-0.020	-1.17	0.92
5	13.164	4.250	-1.230	0.952	998.0	1433.4	507.4	80.9	0.923	0.974	0.999	0.049	0.974	0.014	-0.031	-1.80	0.85
6	13.830	4.250	-1.230	0.952	998.4	1430.6	506.8	80.7	0.912	0.964	0.999	0.069	0.963	0.022	-0.045	-2.70	1.31
7	14.496	4.250	-1.230	0.951	997.7	1433.9	507.3	81.2	0.995	1.039	0.998	-0.080	1.038	0.010	-0.046	-2.54	0.57
8	15.162	4.250	-1.230	0.945	992.3	1431.0	503.5	80.7	1.057	1.097	0.998	-0.196	1.097	-0.013	-0.042	-1.12	-0.69
9	15.828	4.250	-1.230	0.948	994.7	1432.4	505.1	81.2	1.033	1.075	0.997	-0.154	1.075	-0.017	-0.038	-0.41	-0.93
10	16.494	4.250	-1.230	0.950	997.2	1432.9	506.6	81.4	1.139	1.161	0.998	-0.322	1.159	-0.037	0.032	1.60	-1.84
11	17.160	4.250	-1.230	0.945	992.3	1433.2	504.3	80.7	1.108	1.140	0.993	-0.290	1.139	-0.024	0.039	1.96	-1.19
12	17.826	4.250	-1.230	0.949	995.8	1434.3	506.4	81.1	0.903	0.958	0.992	0.070	0.957	-0.012	0.031	1.88	-0.74
13	18.492	4.250	-1.230	0.947	993.7	1433.5	505.0	81.1	0.894	0.952	0.993	0.084	0.952	-0.012	0.019	1.15	-0.75
14	19.158	4.250	-1.230	0.950	996.5	1433.0	506.3	81.1	0.901	0.956	0.993	0.077	0.956	-0.011	0.012	0.70	-0.68
15	19.824	4.250	-1.230	0.953	999.3	1433.2	508.1	80.9	0.914	0.965	0.994	0.060	0.965	-0.010	0.007	0.43	-0.59

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST FART PEX10-6 ALFA CONFIC SURVEY ALFAS

TC-532 310 2.999 0.00 22 404 0.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	HL	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	0.949	996.3	1433.6	506.4	81.2	0.943	0.995	0.999	0.009	0.995	0.004	-0.008	-0.37	0.22
2	10.833	3.500	-2.730	0.950	996.2	1432.6	506.2	80.8	0.940	0.991	0.999	0.016	0.991	0.004	-0.009	-0.55	0.23
3	11.166	3.500	-2.730	0.950	996.8	1434.0	507.0	81.0	0.939	0.990	0.999	0.018	0.990	0.005	-0.011	-0.65	0.27
4	11.499	3.500	-2.730	0.951	997.7	1434.0	507.4	81.2	0.939	0.989	0.999	0.020	0.989	0.005	-0.013	-0.74	0.30
5	11.832	3.500	-2.730	0.952	998.6	1434.2	507.9	81.3	0.939	0.989	0.999	0.020	0.989	0.005	-0.015	-0.84	0.31
6	12.165	3.500	-2.730	0.952	998.3	1433.8	507.6	81.3	0.939	0.989	0.999	0.020	0.989	0.005	-0.016	-0.93	0.29
7	12.498	3.500	-2.730	0.951	997.8	1432.8	507.1	81.0	0.941	0.991	0.999	0.017	0.991	0.005	-0.018	-1.01	0.26
8	12.831	3.500	-2.730	0.948	995.0	1432.9	505.6	80.8	0.940	0.992	0.999	0.013	0.992	0.004	-0.019	-1.12	0.21
9	13.164	3.500	-2.730	0.950	997.2	1435.8	507.5	81.6	0.943	0.994	0.999	0.010	0.994	0.003	-0.022	-1.27	0.17
10	13.497	3.500	-2.730	0.950	997.0	1435.1	507.4	81.1	0.943	0.993	0.999	0.012	0.993	0.002	-0.024	-1.41	0.13
11	13.830	3.500	-2.730	0.950	996.8	1432.0	506.2	81.0	0.943	0.994	0.999	0.011	0.994	0.002	-0.027	-1.57	0.11
12	14.163	3.500	-2.730	0.946	994.0	1432.8	504.6	81.7	0.954	1.007	0.999	0.016	1.007	0.000	-0.028	-1.59	0.02
13	14.496	3.500	-2.730	0.947	994.3	1435.0	505.7	81.4	0.975	1.025	0.999	0.031	1.025	-0.000	-0.025	-1.39	-0.02
14	14.829	3.500	-2.730	0.948	995.4	1434.1	506.0	81.4	1.011	1.055	0.999	0.112	1.055	-0.002	-0.019	-1.04	-0.11
15	15.162	3.500	-2.730	0.950	996.3	1433.7	506.5	81.1	1.043	1.081	0.999	0.164	1.081	-0.004	-0.010	-0.56	-0.20
16	15.495	3.500	-2.730	0.952	998.6	1435.8	508.3	81.6	1.065	1.098	0.999	0.197	1.098	-0.005	-0.000	-0.01	-0.28
17	15.828	3.500	-2.730	0.952	999.0	1434.0	508.0	81.4	1.073	1.104	0.999	0.209	1.104	-0.008	0.009	0.46	-0.41
18	16.161	3.500	-2.730	0.948	995.2	1434.3	506.0	81.4	1.064	1.104	0.998	0.204	1.100	-0.011	0.012	0.63	-0.56
19	16.494	3.500	-2.730	0.949	995.8	1433.5	506.2	81.0	1.063	1.099	0.999	0.200	1.099	-0.011	0.012	0.63	-0.59
20	16.827	3.500	-2.730	0.952	998.4	1435.6	508.2	81.4	1.092	1.121	0.999	0.243	1.120	-0.013	0.021	1.05	-0.65
21	17.160	3.500	-2.730	0.953	1000.1	1435.6	509.0	81.7	1.118	1.141	0.998	0.284	1.140	-0.014	0.035	1.76	-0.72
22	17.493	3.500	-2.730	0.950	996.6	1433.2	506.3	81.4	1.065	1.100	0.998	0.203	1.099	-0.010	0.037	1.90	-0.50
23	17.826	3.500	-2.730	0.951	997.3	1434.1	507.1	81.2	0.929	0.981	0.998	0.034	0.980	-0.007	0.027	1.56	-0.41
24	18.159	3.500	-2.730	0.950	997.2	1435.3	507.3	81.7	0.918	0.971	0.996	0.051	0.971	-0.007	0.022	1.32	-0.42
25	18.492	3.500	-2.730	0.951	998.0	1434.4	507.4	81.7	0.917	0.970	0.997	0.055	0.970	-0.007	0.019	1.13	-0.42
26	18.825	3.500	-2.730	0.953	999.9	1434.9	508.5	82.0	0.918	0.969	0.997	0.057	0.969	-0.007	0.016	0.95	-0.44
27	19.158	3.500	-2.730	0.950	997.2	1435.3	507.3	81.6	0.921	0.974	0.997	0.048	0.973	-0.008	0.013	0.79	-0.44
28	19.491	3.500	-2.730	0.953	999.6	1436.5	509.0	81.7	0.925	0.975	0.996	0.044	0.975	-0.007	0.011	0.65	-0.42

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 311 2.993 0.00 22 405 0.02

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

DATE

2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SNL
1	10.500	3.500	-1.980	0.947	994.6	1434.6	505.4	81.7	0.938	0.992	1.000	0.016	0.992	0.005	-0.008	-0.47	0.29
2	10.833	3.500	-1.980	0.948	995.4	1435.1	506.3	81.6	0.934	0.988	0.999	0.023	0.988	0.006	-0.010	-0.59	0.35
3	11.166	3.500	-1.980	0.949	996.1	1435.3	506.7	81.6	0.932	0.985	0.999	0.028	0.985	0.007	-0.013	-0.73	0.40
4	11.499	3.500	-1.980	0.949	996.4	1434.9	506.7	81.7	0.931	0.984	0.999	0.030	0.984	0.007	-0.015	-0.85	0.43
5	11.832	3.500	-1.980	0.951	997.9	1436.7	508.0	81.9	0.932	0.983	0.998	0.030	0.983	0.008	-0.018	-1.03	0.48
6	12.165	3.500	-1.980	0.950	996.9	1434.9	507.0	81.7	0.933	0.985	0.999	0.029	0.985	0.007	-0.020	-1.14	0.43
7	12.498	3.500	-1.980	0.951	997.8	1435.4	507.3	81.7	0.935	0.986	0.999	0.027	0.986	0.006	-0.022	-1.26	0.37
8	12.831	3.500	-1.980	0.952	998.7	1435.5	508.3	81.4	0.938	0.987	0.999	0.023	0.987	0.005	-0.023	-1.35	0.30
9	13.164	3.500	-1.980	0.951	997.9	1434.2	507.4	81.5	0.936	0.987	0.999	0.025	0.986	0.004	-0.026	-1.53	0.23
10	13.497	3.500	-1.980	0.950	997.1	1436.0	507.5	81.7	0.930	0.982	0.998	0.033	0.982	0.002	-0.033	-1.51	0.10
11	13.830	3.500	-1.980	0.950	997.0	1435.0	507.0	81.8	0.933	0.985	0.999	0.029	0.984	0.001	-0.038	-2.23	0.06
12	14.163	3.500	-1.980	0.950	997.6	1434.4	507.2	81.7	0.949	0.999	0.999	0.001	0.998	-0.001	-0.038	-2.20	-0.06
13	14.496	3.500	-1.980	0.950	996.9	1437.0	507.7	81.7	0.995	1.040	0.999	-0.083	1.040	-0.003	-0.033	-1.79	-0.16
14	14.829	3.500	-1.980	0.949	996.8	1436.4	507.3	82.0	1.046	1.084	0.998	-0.111	1.084	-0.005	-0.021	-1.08	-0.28
15	15.162	3.500	-1.980	0.949	996.4	1435.2	506.7	81.9	1.070	1.105	0.999	-0.211	1.105	-0.008	-0.006	-0.31	-0.39
16	15.495	3.500	-1.980	0.952	998.7	1437.6	508.9	81.8	1.079	1.110	0.998	-0.222	1.110	-0.011	0.005	0.26	-0.57
17	15.828	3.500	-1.980	0.951	998.3	1438.3	508.8	82.0	1.079	1.111	0.998	-0.225	1.111	-0.012	0.010	0.54	-0.64
18	16.161	3.500	-1.980	0.949	996.9	1435.8	507.2	81.9	1.069	1.104	0.997	-0.211	1.104	-0.014	0.011	0.57	-0.71
19	16.494	3.500	-1.980	0.951	997.8	1437.2	508.3	81.7	1.099	1.128	0.998	-0.238	1.127	-0.016	0.023	1.17	-0.79
20	16.827	3.500	-1.980	0.952	999.3	1437.7	509.1	82.0	1.139	1.158	0.998	-0.318	1.157	-0.018	0.047	2.30	-0.88
21	17.160	3.500	-1.980	0.949	997.0	1435.4	507.0	82.0	1.151	1.171	0.997	-0.345	1.169	-0.018	0.060	2.95	-0.86
22	17.493	3.500	-1.980	0.951	998.0	1436.2	507.9	82.0	0.980	1.026	0.994	-0.060	1.025	-0.009	0.033	1.85	-0.48
23	17.826	3.500	-1.980	0.952	999.2	1436.1	508.6	81.9	0.910	0.963	0.994	0.065	0.962	-0.007	0.027	1.59	-0.42
24	18.159	3.500	-1.980	0.950	997.8	1437.2	508.0	82.2	0.906	0.960	0.994	0.069	0.960	-0.008	0.025	1.47	-0.46
25	18.492	3.500	-1.980	0.951	999.1	1436.9	508.6	82.3	0.906	0.959	0.994	0.073	0.959	-0.008	0.020	1.22	-0.49
26	18.825	3.500	-1.980	0.953	1000.0	1437.1	509.2	82.1	0.908	0.960	0.995	0.072	0.959	-0.008	0.017	0.99	-0.51
27	19.158	3.500	-1.980	0.951	998.2	1437.9	508.6	82.1	0.911	0.965	0.994	0.061	0.965	-0.008	0.014	0.84	-0.50
28	19.491	3.500	-1.980	0.951	998.0	1435.0	507.5	82.0	0.915	0.968	0.995	0.057	0.968	-0.009	0.012	0.71	-0.51

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 312 2.996 0.00 22 406 0.02

DATE 2-18-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.946	994.5	1436.8	506.1	82.1	0.933	0.988	0.999	0.022	0.988	0.006	-0.007	-0.43	0.38
2	10.833	3.500	-1.230	0.949	996.5	1436.3	507.8	82.0	0.928	0.981	0.998	0.034	0.981	0.009	-0.010	-0.58	0.51
3	11.166	3.500	-1.230	0.949	996.5	1436.2	506.9	82.3	0.924	0.978	0.999	0.043	0.978	0.011	-0.013	-0.74	0.65
4	11.499	3.500	-1.230	0.948	996.0	1435.4	506.5	82.0	0.922	0.976	1.000	0.047	0.976	0.013	-0.016	-0.95	0.74
5	11.832	3.500	-1.230	0.949	996.6	1435.6	506.9	82.0	0.922	0.975	0.999	0.048	0.975	0.014	-0.020	-1.16	0.80
6	12.165	3.500	-1.230	0.950	997.4	1435.9	507.5	81.9	0.923	0.976	0.999	0.047	0.976	0.013	-0.025	-1.49	0.75
7	12.498	3.500	-1.230	0.951	998.4	1436.0	508.1	81.9	0.927	0.978	0.999	0.041	0.978	0.010	-0.029	-1.72	0.61
8	12.831	3.500	-1.230	0.951	998.4	1436.3	508.2	82.0	0.929	0.980	0.999	0.038	0.980	0.007	-0.032	-1.85	0.40
9	13.164	3.500	-1.230	0.952	999.2	1436.3	508.7	81.7	0.930	0.981	0.999	0.037	0.980	0.003	-0.034	-2.01	0.20
10	13.497	3.500	-1.230	0.954	1000.9	1437.8	510.0	82.0	0.902	0.953	0.998	0.091	0.952	0.002	-0.056	-3.36	0.13
11	13.830	3.500	-1.230	0.953	1000.1	1436.4	509.2	81.9	0.906	0.958	0.999	0.083	0.955	0.001	-0.070	-4.20	0.06
12	14.163	3.500	-1.230	0.951	998.0	1436.8	508.1	82.0	0.947	0.997	0.999	0.004	0.995	-0.003	-0.064	-3.69	0.15
13	14.496	3.500	-1.230	0.950	997.6	1436.7	507.8	82.0	1.039	1.078	0.999	-0.157	1.077	-0.009	-0.046	-2.47	-0.49
14	14.829	3.500	-1.230	0.951	998.5	1438.8	509.0	82.2	1.071	1.104	0.999	-0.209	1.103	-0.016	-0.024	-1.26	-0.83
15	15.162	3.500	-1.230	0.952	1000.0	1437.7	509.2	82.6	1.075	1.106	0.998	-0.216	1.106	-0.021	-0.027	-0.35	-1.07
16	15.495	3.500	-1.230	0.948	996.2	1436.7	506.9	82.2	1.058	1.095	0.998	-0.194	1.095	-0.023	-0.001	-0.05	-1.21
17	15.828	3.500	-1.230	0.950	998.1	1440.0	509.1	82.4	1.053	1.089	0.997	-0.183	1.089	-0.023	0.002	0.12	-1.22
18	16.161	3.500	-1.230	0.952	999.1	1438.5	509.2	82.3	1.113	1.138	0.998	-0.279	1.138	-0.024	0.024	1.18	-1.21
19	16.494	3.500	-1.230	0.950	998.2	1439.2	508.8	82.6	1.176	1.190	0.997	-0.382	1.187	-0.031	0.078	3.78	-1.48
20	16.827	3.500	-1.230	0.949	996.5	1437.0	507.2	82.3	1.190	1.203	0.993	-0.412	1.199	-0.032	0.091	4.32	-1.51
21	17.160	3.500	-1.230	0.950	997.5	1436.1	507.4	82.3	1.067	1.101	0.987	-0.221	1.100	-0.021	0.047	2.43	-1.09
22	17.493	3.500	-1.230	0.947	995.0	1438.1	506.8	82.2	0.948	1.001	0.997	-0.006	1.000	-0.012	0.038	2.17	-0.68
23	17.826	3.500	-1.230	0.948	995.5	1436.3	506.5	82.0	0.919	0.974	0.998	0.049	0.973	-0.012	0.036	2.12	-0.69
24	18.159	3.500	-1.230	0.949	996.7	1435.4	506.9	81.9	0.908	0.963	0.999	0.073	0.962	-0.012	0.031	1.82	-0.71
25	18.492	3.500	-1.230	0.952	999.2	1437.1	508.7	82.2	0.905	0.958	0.998	0.081	0.958	-0.012	0.024	1.44	-0.75
26	18.825	3.500	-1.230	0.949	996.7	1436.6	507.4	81.7	0.906	0.961	0.998	0.074	0.961	-0.013	0.020	1.22	-0.75
27	19.158	3.500	-1.230	0.951	998.5	1436.6	508.4	81.9	0.913	0.965	0.998	0.066	0.965	-0.013	0.017	1.01	-0.75
28	19.491	3.500	-1.230	0.953	999.8	1437.1	509.2	81.9	0.919	0.970	0.998	0.057	0.970	-0.013	0.015	0.89	-0.75

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.
AERO DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 313 3.003 0.00 22

SURVEY ALFA

407

PT 0.02

DATE
2-18-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
1	10.500	2.750	-2.730	0.949	997.0	1439.5	508.4	82.2	0.941	0.993	0.999	0.012	0.993	0.003	-0.009	-0.52	0.15
2	11.166	2.750	-2.730	0.952	999.0	1437.2	508.8	81.9	0.938	0.988	1.000	0.024	0.987	0.003	-0.013	-0.74	0.20
3	11.832	2.750	-2.730	0.952	999.6	1436.0	508.6	82.3	0.939	0.988	0.999	0.022	0.988	0.003	-0.016	-0.92	0.19
4	12.498	2.750	-2.730	0.953	1000.8	1438.5	510.0	82.5	0.943	0.991	0.999	0.016	0.991	0.002	-0.018	-1.06	0.13
5	13.164	2.750	-2.730	0.951	998.6	1437.6	508.6	82.1	0.945	0.995	0.999	0.009	0.994	-0.000	-0.021	-1.21	-0.03
6	13.830	2.750	-2.730	0.953	999.9	1436.9	509.1	82.1	0.948	0.996	0.999	0.006	0.996	-0.003	-0.025	-1.45	-0.17
7	14.496	2.750	-2.730	0.950	997.9	1437.2	507.9	82.5	0.980	1.027	0.999	-0.055	1.027	-0.004	-0.023	-1.28	-0.22
8	15.162	2.750	-2.730	0.952	1000.1	1438.0	509.4	82.5	1.047	1.082	0.999	-0.166	1.082	-0.003	-0.008	-0.42	-0.16
9	15.828	2.750	-2.730	0.951	998.7	1438.9	508.8	82.7	1.079	1.111	0.998	-0.224	1.111	-0.005	0.010	0.49	-0.25
10	16.494	2.750	-2.730	0.953	1000.2	1437.4	509.3	82.4	1.072	1.103	0.998	-0.209	1.103	-0.008	0.014	0.75	-0.43
11	17.160	2.750	-2.730	0.950	997.7	1437.4	507.9	82.5	1.115	1.141	0.999	-0.283	1.141	-0.007	0.035	1.74	-0.37
12	17.826	2.750	-2.730	0.949	996.8	1437.3	507.3	82.5	0.926	0.980	0.997	0.036	0.980	-0.003	0.026	1.55	-0.17
13	18.492	2.750	-2.730	0.952	999.8	1437.6	509.0	82.8	0.918	0.969	0.997	0.056	0.969	-0.005	0.019	1.11	-0.27
14	19.158	2.750	-2.730	0.951	999.0	1441.1	509.6	83.0	0.922	0.974	0.997	0.046	0.974	-0.005	0.014	0.84	-0.29
15	19.824	2.750	-2.730	0.952	999.8	1441.2	510.2	82.9	0.928	0.979	0.996	0.035	0.979	-0.005	0.010	0.57	-0.29

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART 314 REA10-6 ALPHA CONFIG SURVEY ALFAS

TC-332 314 3.006 0.00 22 408 0.02

DATE 2-18-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.980	0.954	1002.1	1440.8	511.3	82.9	0.939	0.986	0.998	0.024	0.986	0.004	-0.010	-0.55	0.22
2	11.166	2.750	-1.980	0.950	998.0	1438.1	509.2	82.7	0.930	0.982	1.000	0.035	0.982	0.005	-0.015	-0.88	0.31
3	11.832	2.750	-1.980	0.951	999.6	1439.1	509.4	82.8	0.933	0.983	0.999	0.033	0.983	0.005	-0.020	-1.18	0.27
4	12.498	2.750	-1.980	0.952	999.7	1436.9	508.7	82.7	0.939	0.989	0.999	0.022	0.988	0.002	-0.023	-1.33	0.10
5	13.164	2.750	-1.980	0.950	998.3	1440.5	509.1	82.8	0.941	0.992	0.999	0.015	0.992	-0.003	-0.026	-1.48	-0.15
6	13.830	2.750	-1.980	0.951	999.5	1438.3	509.9	83.0	0.937	0.987	0.999	0.024	0.987	-0.008	-0.033	-1.93	-0.46
7	14.496	2.750	-1.980	0.949	997.1	1437.8	507.7	82.5	0.991	1.037	0.999	-0.075	1.037	-0.008	-0.028	-1.54	-0.45
8	15.162	2.750	-1.980	0.950	997.9	1439.7	508.7	82.8	1.068	1.103	0.999	-0.207	1.103	-0.004	-0.003	-0.14	-0.22
9	15.828	2.750	-1.980	0.951	999.5	1439.6	509.5	82.8	1.078	1.109	0.998	-0.221	1.109	-0.006	0.010	0.53	-0.33
10	16.494	2.750	-1.980	0.950	998.6	1440.5	509.2	83.0	1.098	1.127	0.999	-0.256	1.127	-0.009	0.024	1.22	-0.44
11	17.160	2.750	-1.980	0.952	1000.2	1439.0	509.7	82.7	1.163	1.178	0.997	-0.358	1.176	0.001	0.065	3.18	0.06
12	17.826	2.750	-1.980	0.951	998.9	1438.0	508.6	82.7	0.908	0.961	0.994	0.067	0.961	-0.001	0.028	1.65	-0.05
13	18.492	2.750	-1.980	0.953	1000.9	1438.4	509.9	82.7	0.907	0.958	0.994	0.074	0.958	-0.004	0.021	1.27	-0.22
14	19.158	2.750	-1.980	0.952	999.9	1438.5	509.5	82.6	0.912	0.964	0.994	0.062	0.964	-0.005	0.015	0.92	-0.29
15	19.824	2.750	-1.980	0.952	999.8	1439.7	509.7	82.8	0.921	0.973	0.994	0.045	0.973	-0.005	0.012	0.70	-0.31

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 315 2.997 0.00 22 409 0.02

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	0.950	997.9	1438.2	508.1	82.8	0.931	0.983	0.999	0.033	0.983	0.006	-0.010	-0.59	0.38
2	11.166	2.750	-1.230	0.951	998.6	1437.4	508.3	82.7	0.919	0.972	1.000	0.055	0.972	0.010	-0.019	-1.11	0.60
3	11.832	2.750	-1.230	0.951	998.6	1439.2	509.0	82.6	0.923	0.975	0.999	0.048	0.975	0.008	-0.029	-1.69	0.48
4	12.498	2.750	-1.230	0.951	998.6	1437.9	508.5	82.6	0.934	0.985	0.999	0.029	0.984	0.002	-0.033	-1.90	0.10
5	13.164	2.750	-1.230	0.952	1000.2	1439.1	509.7	82.8	0.940	0.989	0.999	0.020	0.989	-0.006	-0.032	-1.83	-0.32
6	13.830	2.750	-1.230	0.951	999.3	1438.9	509.1	82.8	0.917	0.969	0.998	0.059	0.968	-0.023	-0.046	-2.72	-1.38
7	14.496	2.750	-1.230	0.950	997.7	1436.3	507.5	82.5	1.017	1.059	1.000	-0.118	1.058	-0.017	-0.038	-2.07	-0.92
8	15.162	2.750	-1.230	0.950	998.3	1434.9	507.2	82.8	1.059	1.095	0.998	-0.192	1.095	-0.003	-0.007	-0.37	-0.15
9	15.828	2.750	-1.230	0.949	997.2	1434.7	508.7	82.4	1.028	1.069	0.996	-0.144	1.069	-0.006	0.005	0.25	-0.11
10	16.494	2.750	-1.230	0.952	999.3	1435.1	508.1	82.3	1.154	1.171	0.998	-0.343	1.170	0.009	0.054	2.66	0.42
11	17.160	2.750	-1.230	0.950	998.0	1436.3	507.7	82.5	1.090	1.120	0.991	-0.252	1.120	-0.005	0.040	2.07	-0.27
12	17.826	2.750	-1.230	0.953	1000.4	1437.1	509.2	82.6	0.905	0.958	0.991	0.069	0.957	-0.001	0.035	2.07	-0.04
13	18.492	2.750	-1.230	0.950	997.9	1437.3	507.8	82.7	0.896	0.952	0.992	0.084	0.951	-0.004	0.027	1.64	-0.23
14	19.158	2.750	-1.230	0.953	1001.2	1439.9	510.4	83.0	0.907	0.959	0.995	0.074	0.958	-0.007	0.018	1.06	-0.43
15	19.824	2.750	-1.230	0.951	998.9	1438.3	508.7	82.8	0.913	0.966	0.993	0.057	0.966	-0.007	0.015	0.86	-0.43

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 316 2.996 0.00 22

SURVEY ALFAS
410 0.02

DATE
2-18-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-2.730	0.946	994.8	1439.8	507.0	82.8	0.939	0.994	0.999	0.011	0.994	-0.004	-0.009	-0.52	-0.21
2	11.833	-2.750	-2.730	0.949	997.0	1439.3	508.0	82.8	0.935	0.988	0.999	0.022	0.988	-0.004	-0.015	-0.89	-0.24
3	13.166	-2.750	-2.730	0.951	999.7	1440.5	509.9	83.0	0.946	0.995	0.999	0.009	0.995	-0.002	-0.021	-1.20	-0.10
6	14.499	-2.750	-2.730	0.947	995.7	1438.1	506.7	83.1	0.976	1.026	1.000	-0.052	1.026	0.002	-0.023	-1.27	0.14
7	15.832	-2.750	-2.730	0.954	1002.2	1435.9	509.5	83.1	1.080	1.108	0.998	-0.219	1.108	0.002	0.008	0.42	0.12
8	17.165	-2.750	-2.730	0.952	1000.3	1436.5	508.9	82.7	1.120	1.143	0.998	-0.287	1.142	0.004	0.035	1.76	0.19
9	18.498	-2.750	-2.730	0.951	999.5	1436.7	508.3	83.2	0.920	0.972	0.997	0.050	0.972	0.002	0.017	1.01	0.12
10	19.831	-2.750	-2.730	0.951	999.0	1440.1	509.3	83.0	0.929	0.981	0.997	0.032	0.981	0.003	0.009	0.54	0.20

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 317 2.993 0.00

CONFIG 22

SURVEY ALFAS

411

DATE

2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 47

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-1.230	0.946	995.0	1438.6	506.5	83.0	0.926	0.982	0.999	0.034	0.982	-0.007	-0.010	-0.60	-0.41
2	11.833	-2.750	-1.230	0.948	997.0	1439.4	508.0	82.9	0.920	0.974	0.999	0.050	0.974	-0.010	-0.028	-1.65	-0.57
3	13.166	-2.750	-1.230	0.951	999.4	1440.3	509.7	82.9	0.938	0.988	0.999	0.021	0.988	0.004	-0.032	-1.84	0.20
4	14.499	-2.750	-1.230	0.952	999.7	1440.1	509.9	82.7	1.026	1.065	0.999	-0.131	1.064	0.017	-0.039	-2.09	0.89
7	15.832	-2.750	-1.230	0.949	996.9	1438.1	507.5	82.8	1.028	1.070	0.997	-0.144	1.070	0.005	0.004	0.24	0.26
8	17.165	-2.750	-1.230	0.951	999.5	1440.1	509.6	83.0	1.097	1.125	0.990	-0.263	1.124	0.005	0.040	2.03	0.23
9	18.498	-2.750	-1.230	0.953	1001.7	1436.0	509.2	83.2	0.897	0.949	0.989	0.083	0.949	0.004	0.024	1.45	0.25
10	19.831	-2.750	-1.230	0.955	1002.5	1436.9	510.1	83.0	0.915	0.954	0.990	0.055	0.964	0.007	0.013	0.80	0.43

DATE 9-MAR-78 PROJECT NO P41C-N0C																	
ARO, INC.																	
AEDC DIVISION																	
A SVERDRUP CORPORATION COMPANY																	
PROPULSION WIND TUNNEL																	
ARNOLD AIR FORCE STATION, TENNESSEE																	
TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS																	
DATE 2-18-78																	
AEDC PROPULSION WIND TUNNEL																	
TRANSONIC 4T																	
POINT	X	Y	Z	M	VM	PT	Q	TT	HL	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
7	10.500	4.250	-2.730	0.953	1002.7	1445.3	512.5	84.4	0.948	0.995	1.000	0.011	0.994	0.007	0.030	1.73	0.40
9	11.166	4.250	-2.730	0.954	1003.4	1446.0	513.0	84.7	0.938	0.986	1.000	0.028	0.985	0.010	0.027	1.57	0.57
12	11.832	4.250	-2.730	0.948	998.3	1443.8	509.5	84.4	0.929	0.982	1.001	0.036	0.982	0.013	0.023	1.34	0.75
13	12.498	4.250	-2.730	0.950	1000.4	1446.1	511.2	84.9	0.927	0.979	1.000	0.042	0.979	0.016	0.018	1.06	0.91
14	13.164	4.250	-2.730	0.951	1001.2	1445.2	511.5	84.7	0.927	0.978	1.000	0.043	0.978	0.017	0.011	0.65	1.02
15	13.830	4.250	-2.730	0.953	1002.3	1444.8	511.9	84.7	0.932	0.982	1.001	0.037	0.982	0.018	0.004	0.22	1.07
17	14.496	4.250	-2.730	0.952	1001.7	1444.9	511.8	84.5	0.957	1.004	0.999	-0.010	1.004	0.017	0.001	0.07	0.96
18	15.162	4.250	-2.730	0.954	1003.6	1445.8	513.1	84.6	1.001	1.041	1.000	-0.083	1.041	0.011	0.009	0.50	0.63
19	15.828	4.250	-2.730	0.951	1002.2	1450.0	513.2	85.7	1.008	1.050	1.000	-0.100	1.050	0.007	0.015	0.83	0.37
21	16.494	4.250	-2.730	0.948	998.1	1443.9	509.5	84.3	1.038	1.078	1.001	-0.155	1.078	0.002	0.026	1.37	0.11
22	17.160	4.250	-2.730	0.952	1001.3	1443.0	510.8	84.6	1.089	1.119	1.000	-0.236	1.117	-0.004	0.048	2.46	-0.23
23	17.826	4.250	-2.730	0.951	1001.4	1446.1	511.8	84.9	0.963	1.010	0.999	-0.022	1.009	0.005	0.046	2.50	0.29
24	18.492	4.250	-2.730	0.955	1004.0	1446.6	513.5	84.7	0.934	0.981	0.998	0.035	0.981	0.006	0.037	2.16	0.36
25	19.158	4.250	-2.730	0.953	1002.9	1444.3	512.1	84.7	0.933	0.982	0.999	0.036	0.981	0.006	0.031	1.81	0.35
26	19.824	4.250	-2.730	0.954	1003.3	1445.4	513.0	84.2	0.938	0.986	0.999	0.027	0.985	0.007	0.028	1.63	0.38

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROBULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REK10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 337 2.998 2.00 22 402 2.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ALJ	SWL
1	10.500	4.250	-1.980	0.949	999.1	1445.4	510.4	84.6	0.941	0.993	1.000	0.014	0.993	0.008	0.031	1.51	0.48
2	11.166	4.250	-1.980	0.951	1000.6	1445.6	511.3	84.6	0.932	0.983	1.000	0.034	0.983	0.012	0.028	1.66	0.72
3	11.832	4.250	-1.980	0.952	1001.7	1443.9	511.5	84.3	0.924	0.975	1.000	0.050	0.974	0.017	0.024	1.41	1.01
4	12.498	4.250	-1.980	0.953	1002.3	1443.7	511.9	84.0	0.920	0.970	1.000	0.060	0.969	0.021	0.018	1.04	1.25
5	13.164	4.250	-1.980	0.955	1004.0	1445.5	513.3	84.4	0.917	0.967	0.999	0.065	0.966	0.024	0.007	0.41	1.41
6	13.830	4.250	-1.980	0.951	1000.6	1443.0	510.4	84.5	0.918	0.971	1.000	0.059	0.970	0.026	-0.006	-0.37	1.53
7	14.496	4.250	-1.980	0.950	999.9	1444.3	510.4	84.7	0.954	1.004	1.000	-0.008	1.004	0.022	-0.007	-0.39	1.27
8	15.162	4.250	-1.980	0.950	1000.2	1445.2	510.9	84.7	1.007	1.050	1.000	-0.100	1.050	0.012	0.004	0.22	0.67
9	15.828	4.250	-1.980	0.954	1003.2	1446.1	512.9	84.6	1.013	1.052	1.000	-0.105	1.052	0.006	0.011	0.51	0.33
10	16.494	4.250	-1.980	0.952	1001.5	1445.6	511.8	84.7	1.067	1.100	1.000	-0.200	1.100	-0.002	0.030	1.56	-0.13
11	17.160	4.250	-1.980	0.951	1000.3	1444.4	510.9	84.3	1.126	1.150	1.000	-0.299	1.148	-0.014	0.064	3.22	-0.69
12	17.826	4.250	-1.980	0.953	1002.0	1446.3	512.6	84.1	0.942	0.991	0.997	0.015	0.990	0.007	0.045	2.62	0.39
13	18.492	4.250	-1.980	0.951	1000.2	1443.8	511.1	84.0	0.921	0.973	0.997	0.049	0.972	0.007	0.036	2.12	0.41
14	19.158	4.250	-1.980	0.951	1000.7	1444.2	511.2	84.0	0.923	0.974	0.997	0.047	0.974	0.007	0.029	1.71	0.42
15	19.824	4.250	-1.980	0.954	1002.9	1444.3	512.2	84.4	0.933	0.981	0.998	0.034	0.981	0.008	0.025	1.47	0.44

DATE 9-WAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RE10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 338 3.000 2.00 22 403 2.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	W	VM	PT	Q	TT	ML	VWL/VM	PFL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.230	0.949	999.0	1445.7	510.6	84.4	0.939	0.991	1.000	0.018	0.990	0.009	0.034	1.96	0.50
2	11.166	4.250	-1.230	0.950	999.7	1443.8	510.4	84.2	0.928	0.980	1.000	0.040	0.979	0.014	0.032	1.85	0.81
3	11.832	4.250	-1.230	0.952	1001.3	1444.4	511.4	84.3	0.919	0.970	1.000	0.059	0.970	0.022	0.027	1.62	1.31
4	12.498	4.250	-1.230	0.954	1002.9	1444.8	512.4	84.4	0.910	0.961	1.000	0.078	0.960	0.030	0.019	1.12	1.92
5	13.164	4.250	-1.230	0.953	1002.1	1442.6	511.2	84.5	0.898	0.951	1.001	0.100	0.950	0.035	0.002	0.12	2.12
6	13.830	4.250	-1.230	0.949	998.7	1442.7	509.5	84.0	0.897	0.953	1.000	0.094	0.952	0.044	-0.021	-1.28	2.63
7	14.496	4.250	-1.230	0.950	999.3	1443.2	510.1	84.0	0.959	1.008	1.001	-0.015	1.007	0.030	-0.022	-1.24	1.72
8	15.162	4.250	-1.230	0.949	998.8	1444.7	510.3	84.0	1.021	1.063	1.000	-0.126	1.063	0.011	-0.006	-0.30	0.62
9	15.828	4.250	-1.230	0.952	1001.8	1443.4	511.4	84.3	1.014	1.054	1.000	-0.109	1.054	0.004	0.005	0.26	0.23
10	16.494	4.250	-1.230	0.951	1000.0	1443.4	510.4	84.2	1.115	1.141	1.000	-0.282	1.140	-0.022	0.048	2.31	-1.11
11	17.160	4.250	-1.230	0.948	997.6	1444.4	509.5	84.1	1.077	1.112	0.996	-0.229	1.111	-0.009	0.055	2.86	-0.67
12	17.826	4.250	-1.230	0.951	999.9	1441.8	509.9	84.0	0.929	0.981	0.997	0.033	0.980	0.007	0.045	2.65	0.42
13	18.492	4.250	-1.230	0.949	998.8	1443.8	509.8	84.3	0.907	0.962	0.998	0.072	0.961	0.007	0.036	2.13	0.44
14	19.158	4.250	-1.230	0.950	999.6	1444.9	510.8	84.1	0.913	0.967	0.998	0.063	0.966	0.008	0.027	1.58	0.46
16	19.824	4.250	-1.230	0.947	997.5	1443.7	509.0	84.5	0.924	0.979	0.997	0.038	0.979	0.009	0.023	1.32	0.50

DATE 9-MAR-78 PROJECT NO PAIC-NOC

ARG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART 339 2.997 2.00 22 CONFIG SURVEY ALFAS

TC-332 339 2.997 2.00 22

DATE 2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	ABL	SWL
1	10.500	3.500	-2.730	0.948	997.6	1443.4	509.2	84.0	0.939	0.992	1.000	0.016	0.992	0.007	0.028	1.62	0.42
2	10.833	3.500	-2.730	0.949	998.8	1443.7	510.1	84.3	0.934	0.987	1.000	0.026	0.987	0.009	0.026	1.50	0.50
3	11.166	3.500	-2.730	0.949	998.3	1442.6	509.3	84.0	0.930	0.983	1.000	0.034	0.983	0.010	0.024	1.41	0.58
4	11.499	3.500	-2.730	0.950	999.4	1443.0	510.4	83.9	0.927	0.979	1.000	0.041	0.979	0.012	0.021	1.26	0.68
5	11.832	3.500	-2.730	0.951	1000.4	1445.0	511.3	84.0	0.927	0.978	0.999	0.043	0.978	0.013	0.019	1.11	0.73
6	12.165	3.500	-2.730	0.951	1000.7	1443.9	510.8	84.6	0.925	0.977	1.000	0.047	0.977	0.013	0.016	0.93	0.79
7	12.498	3.500	-2.730	0.950	999.9	1444.7	510.9	84.1	0.923	0.975	1.000	0.049	0.975	0.014	0.013	0.76	0.81
8	12.831	3.500	-2.730	0.952	1001.3	1446.6	512.1	84.5	0.925	0.976	0.999	0.046	0.976	0.014	0.009	0.51	0.85
9	13.164	3.500	-2.730	0.946	995.2	1441.7	507.5	83.4	0.921	0.978	1.001	0.046	0.978	0.014	0.006	0.35	0.82
10	13.497	3.500	-2.730	0.948	998.1	1443.2	509.2	84.4	0.925	0.979	0.999	0.040	0.979	0.014	0.002	0.14	0.80
11	13.830	3.500	-2.730	0.949	999.1	1443.7	509.6	84.0	0.930	0.983	1.000	0.034	0.983	0.013	-0.001	-0.09	0.76
12	14.163	3.500	-2.730	0.950	999.7	1443.4	510.3	84.0	0.940	0.991	1.000	0.017	0.991	0.013	-0.003	-0.20	0.73
13	14.496	3.500	-2.730	0.950	999.0	1444.7	510.6	83.7	0.957	1.007	1.000	-0.014	1.007	0.012	-0.002	-0.13	0.68
14	14.829	3.500	-2.730	0.948	997.3	1442.8	508.8	84.1	0.978	1.027	0.999	-0.055	1.027	0.010	0.002	0.11	0.59
15	15.162	3.500	-2.730	0.948	997.6	1442.0	508.7	84.0	0.998	1.044	1.000	-0.088	1.044	0.009	0.008	0.42	0.47
16	15.495	3.500	-2.730	0.950	999.6	1445.0	510.7	84.4	1.006	1.050	1.000	-0.099	1.050	0.007	0.011	0.62	0.37
17	15.828	3.500	-2.730	0.952	1001.0	1444.0	511.2	84.2	1.010	1.051	1.000	-0.102	1.051	0.006	0.015	0.80	0.31
18	16.161	3.500	-2.730	0.947	996.9	1444.4	509.0	84.3	1.020	1.064	1.000	-0.128	1.064	0.003	0.018	0.98	0.18
19	16.494	3.500	-2.730	0.950	999.1	1444.9	510.5	84.1	1.043	1.081	0.999	-0.164	1.081	0.002	0.026	1.40	0.12
20	16.827	3.500	-2.730	0.951	999.8	1443.0	510.3	84.0	1.069	1.102	1.000	-0.205	1.102	0.001	0.038	1.96	0.05
21	17.160	3.500	-2.730	0.947	997.0	1444.2	509.1	84.0	1.094	1.126	1.000	-0.252	1.125	0.000	0.053	2.67	0.00
22	17.493	3.500	-2.730	0.948	998.0	1443.7	509.1	84.7	1.030	1.072	0.999	-0.145	1.071	0.006	0.051	2.75	0.31
23	17.826	3.500	-2.730	0.949	998.6	1445.5	510.4	84.1	0.953	1.004	0.999	-0.009	1.003	0.006	0.043	2.47	0.36
24	18.159	3.500	-2.730	0.951	1000.6	1445.0	511.4	84.1	0.938	0.988	0.999	0.021	0.988	0.006	0.039	2.25	0.37
25	18.492	3.500	-2.730	0.949	998.7	1444.5	510.2	84.0	0.933	0.985	0.998	0.027	0.985	0.006	0.035	2.03	0.36
26	18.825	3.500	-2.730	0.951	1000.1	1444.3	510.9	84.0	0.931	0.983	0.998	0.032	0.982	0.006	0.031	1.84	0.36
27	19.158	3.500	-2.730	0.951	1000.7	1442.2	510.4	84.2	0.931	0.982	0.999	0.035	0.981	0.006	0.030	1.74	0.35
28	19.491	3.500	-2.730	0.949	998.4	1443.2	509.6	84.0	0.932	0.985	0.999	0.028	0.984	0.006	0.027	1.57	0.36

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-0 ALPHA

TC-332 340 2.995 2.00

SURVEY ALFAS

405 2.01

DATE

2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SML
1	10.500	3.500	-1.980	0.946	996.0	1432.6	508.1	83.8	0.931	0.986	1.000	0.029	0.985	0.009	0.030	1.73	0.51
2	10.833	3.500	-1.980	0.949	998.6	1433.8	509.9	84.0	0.929	0.982	1.000	0.035	0.982	0.011	0.028	1.62	0.65
3	11.166	3.500	-1.980	0.950	999.3	1433.1	509.9	84.2	0.925	0.978	1.000	0.045	0.978	0.013	0.025	1.46	0.78
4	11.499	3.500	-1.980	0.951	1000.0	1434.2	510.8	84.0	0.920	0.973	0.999	0.054	0.972	0.016	0.022	1.29	0.92
5	11.832	3.500	-1.980	0.951	1001.0	1434.8	511.4	84.4	0.918	0.970	0.999	0.058	0.970	0.018	0.018	1.06	1.05
6	12.165	3.500	-1.980	0.952	1001.3	1434.5	511.5	84.2	0.916	0.968	1.000	0.064	0.968	0.019	0.014	0.81	1.13
7	12.498	3.500	-1.980	0.951	999.9	1430.9	509.6	83.9	0.914	0.967	1.000	0.066	0.967	0.019	0.009	0.54	1.15
8	12.831	3.500	-1.980	0.951	1000.3	1431.7	510.3	83.6	0.914	0.966	1.000	0.068	0.966	0.019	0.005	0.30	1.13
9	13.164	3.500	-1.980	0.953	1002.0	1433.8	511.7	84.1	0.914	0.965	1.000	0.068	0.965	0.018	-0.001	-0.08	1.09
10	13.497	3.500	-1.980	0.953	1001.6	1433.0	511.3	84.0	0.913	0.964	1.001	0.072	0.964	0.017	-0.008	-0.49	1.02
11	13.830	3.500	-1.980	0.953	1001.9	1434.4	511.9	84.0	0.918	0.969	1.000	0.061	0.969	0.016	-0.015	-0.87	0.97
12	14.163	3.500	-1.980	0.952	1001.0	1432.5	510.8	84.0	0.932	0.982	1.000	0.035	0.982	0.015	-0.016	-0.95	0.90
13	14.496	3.500	-1.980	0.949	998.8	1433.9	510.0	84.0	0.963	1.012	1.000	-0.024	1.012	0.014	-0.011	-0.65	0.77
14	14.829	3.500	-1.980	0.950	999.5	1433.1	510.1	84.0	1.002	1.046	1.000	-0.092	1.046	0.012	-0.003	-0.17	0.63
15	15.162	3.500	-1.980	0.951	1000.3	1432.6	510.6	83.7	1.022	1.062	1.000	-0.123	1.062	0.009	0.004	0.21	0.49
16	15.495	3.500	-1.980	0.952	1000.6	1433.4	511.0	83.7	1.015	1.056	1.000	-0.112	1.056	0.006	0.008	0.43	0.35
17	15.828	3.500	-1.980	0.950	999.4	1431.7	509.6	83.9	1.014	1.056	0.999	-0.115	1.056	0.005	0.013	0.70	0.26
18	16.161	3.500	-1.980	0.951	1000.7	1434.2	511.0	84.3	1.037	1.075	1.000	-0.151	1.075	0.002	0.020	1.04	0.12
19	16.494	3.500	-1.980	0.953	1001.6	1433.8	511.6	83.8	1.075	1.105	1.000	-0.211	1.105	0.000	0.037	1.91	0.01
20	16.827	3.500	-1.980	0.950	998.9	1433.2	509.9	84.0	1.113	1.140	0.999	-0.280	1.138	-0.001	0.059	2.98	-0.06
21	17.160	3.500	-1.980	0.951	1000.5	1434.3	511.2	83.8	1.113	1.138	0.999	-0.278	1.136	-0.001	0.063	3.19	-0.06
22	17.493	3.500	-1.980	0.953	1002.2	1434.4	512.1	84.0	1.005	1.046	0.997	-0.095	1.045	0.006	0.048	2.65	0.32
23	17.826	3.500	-1.980	0.949	998.4	1433.3	509.8	83.6	0.931	0.983	0.997	0.028	0.982	0.008	0.044	2.55	0.48
24	18.159	3.500	-1.980	0.951	1000.3	1433.3	510.7	83.9	0.925	0.976	0.997	0.043	0.976	0.008	0.039	2.29	0.45
25	18.492	3.500	-1.980	0.953	1002.0	1432.8	511.4	84.0	0.920	0.971	0.997	0.054	0.970	0.007	0.035	2.04	0.43
26	18.825	3.500	-1.980	0.950	1000.0	1435.1	510.9	84.3	0.920	0.973	0.997	0.051	0.972	0.007	0.031	1.80	0.39
27	19.158	3.500	-1.980	0.952	1001.9	1434.4	511.7	84.3	0.922	0.973	0.997	0.050	0.972	0.007	0.028	1.63	0.40
28	19.491	3.500	-1.980	0.950	999.1	1434.2	510.2	84.1	0.925	0.978	0.998	0.040	0.977	0.007	0.025	1.47	0.41

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALPHA CONFIG

TC-532 341 3.000 2.00 22 406 2.01

DATE 2-18-78
AEC PROPULSION WIND TUNNEL
TRANSONIC 47

POINT	X	Y	Z	N	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.950	999.4	1444.4	510.4	84.2	0.933	0.985	1.000	0.029	0.985	0.010	0.033	1.69	0.58
2	10.833	3.500	-1.230	0.951	1000.5	1444.9	511.3	84.2	0.924	0.976	0.999	0.046	0.975	0.013	0.031	1.80	0.79
3	11.166	3.500	-1.230	0.951	999.9	1443.4	510.4	84.1	0.918	0.971	1.000	0.058	0.970	0.017	0.028	1.66	1.02
4	11.499	3.500	-1.230	0.952	1001.4	1444.6	511.6	84.3	0.913	0.965	1.000	0.069	0.965	0.021	0.024	1.43	1.28
5	11.832	3.500	-1.230	0.951	1000.4	1443.7	510.9	83.9	0.907	0.960	0.999	0.078	0.960	0.025	0.019	1.15	1.51
6	12.165	3.500	-1.230	0.951	1000.5	1443.7	511.0	83.9	0.903	0.956	1.000	0.087	0.956	0.028	0.012	0.74	1.70
7	12.498	3.500	-1.230	0.948	997.9	1443.4	509.3	84.0	0.899	0.955	1.000	0.088	0.955	0.028	0.004	0.23	1.69
8	12.831	3.500	-1.230	0.950	999.0	1443.6	510.0	84.0	0.899	0.954	0.999	0.091	0.954	0.026	-0.005	-0.28	1.58
9	13.164	3.500	-1.230	0.950	999.0	1443.6	510.0	84.0	0.896	0.952	1.000	0.096	0.952	0.023	-0.012	-0.72	1.39
10	13.497	3.500	-1.230	0.951	1000.7	1445.1	511.4	84.1	0.882	0.938	0.999	0.123	0.937	0.022	-0.034	-2.06	1.33
11	13.830	3.500	-1.230	0.947	996.3	1443.3	508.4	84.0	0.890	0.948	0.999	0.102	0.947	0.021	-0.048	-2.90	1.28
12	14.163	3.500	-1.230	0.947	996.8	1442.7	508.5	83.9	0.923	0.978	1.000	0.044	0.977	0.020	-0.044	-2.59	1.15
13	14.496	3.500	-1.230	0.948	997.7	1442.8	509.0	84.1	0.990	1.037	1.000	-0.074	1.036	0.017	-0.028	-1.53	0.96
14	14.829	3.500	-1.230	0.950	1000.1	1444.1	510.5	84.6	1.034	1.073	0.999	-0.148	1.073	0.013	-0.011	-0.61	0.67
15	15.162	3.500	-1.230	0.951	1000.7	1446.4	511.8	84.3	1.030	1.069	1.000	-0.138	1.069	0.008	-0.002	-0.10	0.45
16	15.495	3.500	-1.230	0.949	998.5	1445.1	510.3	84.0	1.012	1.056	0.999	-0.112	1.056	0.005	0.003	0.14	0.29
17	15.828	3.500	-1.230	0.948	997.6	1443.5	509.3	83.9	1.015	1.059	0.999	-0.119	1.059	0.003	0.008	0.46	0.15
18	16.161	3.500	-1.230	0.950	999.1	1444.7	510.6	83.8	1.078	1.111	0.999	-0.223	1.111	-0.001	0.031	1.50	-0.05
19	16.494	3.500	-1.230	0.951	1000.5	1444.3	511.2	83.8	1.147	1.166	0.999	-0.332	1.163	-0.007	0.086	4.21	-0.36
20	16.827	3.500	-1.230	0.950	998.6	1442.1	509.6	83.4	1.153	1.173	0.997	-0.348	1.169	-0.008	0.094	4.60	-0.41
21	17.160	3.500	-1.230	0.950	999.6	1443.4	510.3	84.1	1.035	1.074	0.992	-0.159	1.072	-0.000	0.059	3.16	-0.01
22	17.493	3.500	-1.230	0.951	999.7	1442.5	510.2	83.7	0.964	1.012	0.998	-0.026	1.011	0.008	0.052	2.94	0.43
23	17.826	3.500	-1.230	0.953	1001.9	1444.3	512.1	83.7	0.940	0.988	0.999	0.022	0.987	0.009	0.047	2.70	0.49
24	18.159	3.500	-1.230	0.950	999.1	1442.2	509.8	83.6	0.918	0.971	0.999	0.056	0.971	0.008	0.041	2.40	0.50
25	18.492	3.500	-1.230	0.952	1001.1	1441.3	510.4	84.0	0.912	0.964	0.999	0.070	0.963	0.008	0.036	2.16	0.47
26	18.825	3.500	-1.230	0.950	999.0	1441.9	509.6	83.7	0.912	0.966	1.000	0.068	0.965	0.007	0.031	1.81	0.43
27	19.158	3.500	-1.230	0.951	999.8	1442.7	510.2	84.0	0.917	0.970	0.999	0.058	0.970	0.007	0.027	1.58	0.41
28	19.491	3.500	-1.230	0.952	1000.9	1442.7	510.8	84.0	0.923	0.974	0.999	0.051	0.974	0.007	0.025	1.48	0.39

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RE10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 342 2.999 2.00 22 407 2.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	WL	VM/L/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-2.730	0.950	999.0	1442.6	509.8	83.8	0.938	0.989	1.000	0.021	0.989	0.007	0.027	1.54	0.43
2	11.166	2.750	-2.730	0.951	1000.2	1441.9	510.2	83.8	0.928	0.979	1.000	0.041	0.979	0.009	0.021	1.21	0.55
3	11.832	2.750	-2.730	0.951	999.7	1441.4	509.9	83.5	0.922	0.974	1.001	0.053	0.974	0.011	0.015	0.97	0.63
4	12.498	2.750	-2.730	0.953	1001.9	1443.7	511.8	83.8	0.924	0.975	1.000	0.052	0.974	0.011	0.009	0.51	0.64
5	13.164	2.750	-2.730	0.953	1002.5	1444.2	512.2	84.1	0.927	0.976	0.999	0.047	0.976	0.009	0.003	0.18	0.55
6	13.830	2.750	-2.730	0.950	999.3	1441.2	509.3	84.0	0.931	0.983	1.001	0.036	0.983	0.007	-0.002	-0.11	0.43
7	14.496	2.750	-2.730	0.953	1001.6	1442.7	511.3	83.7	0.959	1.005	1.001	-0.010	1.005	0.007	-0.002	-0.13	0.37
8	15.162	2.750	-2.730	0.953	1001.6	1443.4	511.4	84.0	1.013	1.053	0.999	-0.106	1.053	0.007	0.008	0.42	0.36
9	15.828	2.750	-2.730	0.953	1001.6	1441.6	510.8	84.0	1.011	1.052	1.000	-0.103	1.051	0.004	0.015	0.84	0.24
10	16.494	2.750	-2.730	0.951	1000.1	1443.1	510.5	83.9	1.042	1.079	1.000	-0.158	1.079	0.003	0.026	1.40	0.17
11	17.160	2.750	-2.730	0.951	1000.5	1443.6	510.9	83.8	1.093	1.122	1.000	-0.243	1.120	0.006	0.051	2.59	0.32
12	17.826	2.750	-2.730	0.952	1001.4	1444.4	511.6	84.0	0.957	1.004	0.999	-0.010	1.004	0.008	0.041	2.36	0.47
13	18.492	2.750	-2.730	0.949	999.3	1443.9	510.0	84.5	0.934	0.987	0.999	0.025	0.986	0.006	0.033	1.94	0.37

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLO AIR FORCE STATION, TENNESSEE

TEST	PART	REX10-6	ALFA	CONFIG	SURVEY	ALFAS
TC-532	343	2.996	2.00	22	407	2.02

DATE	AEDC PROPULSION WIND TUNNEL
2-18-78	TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UI/VM	VL/VM	WL/VM	AAL	SML
1	18.492	2.750	-2.730	0.950	999.0	1442.0	509.4	84.0	0.934	0.986	0.999	0.026	0.985	0.006	0.034	1.97	0.38
2	19.158	2.750	-2.730	0.950	999.0	1442.5	509.7	83.9	0.933	0.985	0.999	0.027	0.985	0.006	0.029	1.68	0.33
3	19.824	2.750	-2.730	0.949	998.5	1442.2	509.5	83.6	0.934	0.986	1.000	0.027	0.986	0.006	0.025	1.48	0.33

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 344

CONFIG 22 SURVEY ALFAS 408 2.02

DATE 2-10-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VM/VM	PT/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
2	10.500	2.750	-1.980	0.951	1000.4	1442.2	510.4	83.7	0.932	0.982	1.000	0.035	0.982	0.010	0.028	1.61	0.56
3	11.166	2.750	-1.980	0.951	1000.2	1442.2	510.2	83.9	0.920	0.972	1.000	0.055	0.972	0.014	0.020	1.20	0.80
4	11.832	2.750	-1.980	0.950	999.6	1443.8	510.3	84.2	0.912	0.966	1.000	0.068	0.966	0.015	0.012	0.69	0.92
5	12.498	2.750	-1.980	0.951	1000.1	1444.0	510.8	83.9	0.914	0.967	1.000	0.066	0.967	0.015	0.003	0.19	0.87
6	13.164	2.750	-1.980	0.951	1000.1	1443.4	510.5	84.1	0.917	0.970	1.000	0.060	0.970	0.011	-0.004	-0.23	0.64
7	13.830	2.750	-1.980	0.950	999.8	1443.5	510.4	84.0	0.921	0.973	1.000	0.053	0.973	0.006	-0.013	-0.77	0.33
8	14.496	2.750	-1.980	0.948	997.4	1440.4	509.2	83.6	0.960	1.010	1.000	0.020	1.010	0.005	-0.011	-0.62	0.30
9	15.162	2.750	-1.980	0.952	1001.0	1444.2	511.3	84.1	1.026	1.065	1.000	-0.130	1.065	0.007	0.004	0.21	0.37
10	15.828	2.750	-1.980	0.948	997.0	1443.1	508.9	83.6	1.017	1.061	1.000	-0.123	1.061	0.004	0.014	0.74	0.24
11	16.494	2.750	-1.980	0.952	1000.5	1443.7	511.1	83.7	1.071	1.104	0.999	-0.208	1.103	0.005	0.034	1.79	0.28
12	17.160	2.750	-1.980	0.948	997.0	1441.2	508.3	83.5	1.102	1.133	1.000	-0.266	1.131	0.012	0.061	3.07	0.5
13	17.826	2.750	-1.980	0.949	997.5	1442.6	509.2	83.3	0.932	0.985	0.998	0.026	0.984	0.011	0.042	2.47	0.54
14	18.492	2.750	-1.980	0.952	1001.2	1444.8	511.6	84.2	0.923	0.974	0.997	0.046	0.974	0.009	0.034	1.97	0.50
15	19.158	2.750	-1.980	0.953	1001.4	1442.7	511.2	83.8	0.924	0.974	0.998	0.047	0.974	0.007	0.027	1.61	0.41
16	19.824	2.750	-1.980	0.953	1002.7	1442.3	511.4	84.5	0.931	0.980	0.998	0.036	0.980	0.006	0.024	1.37	0.37

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 345 2.998 2.00 22 409 2.02

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
1	10.500	2.750	-1.230	0.948	997.2	1443.3	509.0	83.8	0.923	0.978	1.000	0.045	0.977	0.013	0.031	1.80	0.74
2	11.166	2.750	-1.230	0.950	998.9	1443.3	510.0	83.8	0.906	0.961	1.000	0.078	0.960	0.020	0.020	1.22	1.22
3	11.832	2.750	-1.230	0.951	999.9	1442.6	510.3	83.7	0.898	0.953	1.000	0.094	0.952	0.024	0.005	0.33	1.44
4	12.498	2.750	-1.230	0.951	1000.3	1439.9	509.6	83.7	0.903	0.956	1.000	0.088	0.956	0.020	-0.007	-0.44	1.17
5	13.164	2.750	-1.230	0.954	1002.3	1443.5	512.1	83.5	0.908	0.959	1.000	0.082	0.959	0.011	-0.014	-0.84	0.64
7	13.830	2.750	-1.230	0.950	999.5	1443.1	510.1	84.0	0.901	0.956	1.000	0.087	0.956	-0.007	-0.031	-1.64	-0.40
8	14.496	2.750	-1.230	0.952	1001.4	1441.9	510.7	84.0	0.976	1.021	1.000	-0.041	1.020	-0.002	-0.029	-1.60	-0.11
9	15.162	2.750	-1.230	0.949	998.2	1441.0	508.9	83.6	1.032	1.072	1.001	-0.143	1.072	0.005	-0.004	-0.21	0.27
10	15.828	2.750	-1.230	0.952	1001.0	1443.9	511.3	83.9	1.022	1.061	1.000	-0.122	1.061	0.003	0.009	0.46	0.16
11	16.494	2.750	-1.230	0.952	1001.3	1436.3	508.8	83.9	1.126	1.148	0.999	-0.297	1.146	0.022	0.059	2.93	1.08
12	17.160	2.750	-1.230	0.950	998.9	1438.9	508.5	83.7	1.034	1.074	0.995	-0.155	1.072	0.014	0.055	2.92	0.73
13	17.826	2.750	-1.230	0.952	1001.1	1436.8	509.0	83.7	0.923	0.974	0.995	0.044	0.973	0.012	0.045	2.67	0.73
14	18.492	2.750	-1.230	0.951	999.5	1438.9	508.9	83.5	0.909	0.963	0.997	0.069	0.962	0.010	0.036	2.15	0.57
15	19.158	2.750	-1.230	0.951	999.7	1439.8	509.3	83.6	0.913	0.966	0.997	0.062	0.966	0.007	0.026	1.54	0.40
16	19.824	2.750	-1.230	0.950	999.1	1438.5	508.7	83.3	0.924	0.976	0.997	0.043	0.976	0.006	0.023	1.33	0.36

DATE 9-MAR-78 PROJECT NO P41C-NOC

AERO, INC.

AEDC DIVISION

A SPERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 346 2.994 2.00 22 410 2.02

DATE 2-18-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SWL
1	10.500	-2.750	-2.730	0.946	996.1	1442.4	508.0	83.9	0.933	0.988	1.000	0.023	0.988	-0.011	0.026	1.53	-0.61
2	11.833	-2.750	-2.730	0.948	997.7	1442.6	509.1	83.8	0.919	0.973	0.999	0.052	0.973	-0.014	0.015	0.69	-0.80
3	13.166	-2.750	-2.730	0.951	1000.4	1443.0	510.4	84.4	0.923	0.975	1.000	0.050	0.975	-0.011	0.003	0.17	-0.67
4	14.499	-2.750	-2.730	0.955	1003.0	1442.2	512.0	83.5	0.958	1.003	1.000	-0.005	1.003	-0.008	-0.003	-0.18	-0.47
5	15.832	-2.750	-2.730	0.950	999.5	1445.6	510.8	84.3	1.011	1.054	1.000	-0.108	1.054	-0.006	0.014	0.76	-0.32
6	17.165	-2.750	-2.730	0.950	999.1	1443.5	510.1	83.9	1.091	1.121	1.000	-0.243	1.120	-0.011	0.052	2.64	-0.55
7	18.498	-2.750	-2.730	0.951	999.8	1440.9	509.6	83.7	0.932	0.984	0.999	0.031	0.983	-0.010	0.032	1.87	-0.57
9	19.831	-2.750	-2.730	0.952	1001.0	1442.5	510.9	83.7	0.938	0.987	0.999	0.024	0.987	-0.009	0.023	1.36	-0.49

DATE 9-MAR-78 PROJECT NO PAIC-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART 347 2.997 2.00 22 2.02

TC-532 347 2.997 2.00 22 2.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SNL
1	10.500	-2.750	-1.230	0.949	998.0	1432.0	509.0	83.8	0.924	0.978	1.000	0.045	0.977	-0.016	0.031	1.84	-0.93
2	11.833	-2.750	-1.230	0.952	1000.6	1430.9	510.2	83.4	0.896	0.949	1.000	0.101	0.949	-0.026	0.005	0.29	-1.57
3	13.166	-2.750	-1.230	0.954	1003.0	1431.2	511.6	82.6	0.906	0.956	1.000	0.088	0.956	-0.013	-0.015	-0.89	-0.76
4	14.499	-2.750	-1.230	0.952	1000.7	1434.8	511.4	84.0	0.975	1.021	0.999	-0.042	1.020	0.000	-0.029	-1.61	0.01
5	15.832	-2.750	-1.230	0.950	998.5	1430.5	508.9	83.5	1.025	1.066	1.000	-0.132	1.066	-0.004	0.008	0.45	-0.20
6	17.165	-2.750	-1.230	0.951	999.7	1432.8	510.2	83.8	1.008	1.051	0.995	-0.109	1.049	-0.017	0.053	2.89	-0.92
7	18.498	-2.750	-1.230	0.953	1001.6	1433.3	511.4	83.9	0.907	0.959	0.994	0.072	0.958	-0.011	0.033	1.96	-0.65
8	19.831	-2.750	-1.230	0.953	1001.6	1439.2	510.3	83.3	0.922	0.972	0.996	0.048	0.972	-0.007	0.021	1.26	-0.44

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 353 3.001 5.00 22 401 5.00

DATE 2-18-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
9	10.500	4.250	-2.730	0.951	1000.2	1442.9	510.6	83.8	0.927	0.979	1.000	0.042	0.975	0.015	0.082	4.79	0.88
10	11.166	4.250	-2.730	0.952	1000.7	1440.6	510.1	83.7	0.916	0.968	1.000	0.064	0.964	0.020	0.079	4.59	1.17
11	11.832	4.250	-2.730	0.949	998.7	1444.3	510.2	83.8	0.905	0.960	1.000	0.080	0.956	0.026	0.073	4.37	1.55
12	12.498	4.250	-2.730	0.950	998.6	1441.1	509.3	83.3	0.899	0.954	1.000	0.092	0.951	0.031	0.065	3.90	1.85
13	13.164	4.250	-2.730	0.948	997.2	1441.7	508.4	83.9	0.895	0.953	1.000	0.094	0.950	0.035	0.054	3.27	2.10
14	13.830	4.250	-2.730	0.949	998.5	1444.1	510.0	83.9	0.902	0.957	1.000	0.085	0.955	0.037	0.045	2.69	2.19
15	14.496	4.250	-2.730	0.952	1000.8	1444.6	511.4	83.9	0.921	0.972	1.000	0.054	0.971	0.035	0.040	2.36	2.07
16	15.162	4.250	-2.730	0.952	1000.9	1440.9	510.4	83.4	0.941	0.990	1.000	0.021	0.989	0.031	0.039	2.26	1.81
17	15.828	4.250	-2.730	0.953	1001.7	1441.5	510.8	83.9	0.963	1.009	1.000	-0.019	1.008	0.028	0.041	2.31	1.59
18	16.494	4.250	-2.730	0.950	999.5	1444.3	510.7	83.9	1.009	1.051	1.000	-0.103	1.050	0.022	0.050	2.72	1.22
19	17.160	4.250	-2.730	0.949	998.2	1443.4	509.7	83.6	1.063	1.099	0.999	-0.198	1.096	0.018	0.070	3.66	0.92
20	17.826	4.250	-2.730	0.952	1000.6	1441.6	510.4	83.7	1.002	1.044	0.999	-0.089	1.041	0.027	0.072	3.98	1.48
21	18.492	4.250	-2.730	0.954	1003.0	1441.4	511.7	83.7	0.962	1.007	0.999	-0.015	1.004	0.031	0.069	3.93	1.76
22	19.158	4.250	-2.730	0.953	1001.8	1442.1	511.3	83.4	0.942	0.990	1.000	0.020	0.987	0.031	0.061	3.55	1.79
23	19.824	4.250	-2.730	0.953	1002.4	1443.2	511.7	84.1	0.939	0.988	0.999	0.023	0.985	0.030	0.057	3.30	1.77

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RFX10-6 ALFA

TC-532 354 3.001 5.00

SURVEY ALFAS 402 5.00

DATE 2-18-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	4.250	-1.980	0.951	999.9	1443.7	510.6	83.9	0.925	0.977	1.000	0.046	0.973	0.016	0.056	5.05	0.97
2	11.156	4.250	-1.980	0.952	1000.9	1444.0	511.3	83.9	0.911	0.963	0.999	0.072	0.959	0.023	0.083	4.95	1.40
3	11.832	4.250	-1.980	0.952	1000.6	1443.3	510.9	83.9	0.899	0.952	0.999	0.094	0.949	0.032	0.077	4.65	1.95
4	12.498	4.250	-1.980	0.953	1001.8	1444.2	511.9	83.9	0.889	0.943	1.000	0.114	0.939	0.041	0.066	4.01	2.48
5	13.164	4.250	-1.980	0.950	998.8	1442.0	509.6	83.4	0.880	0.936	0.999	0.125	0.934	0.047	0.050	3.05	2.88
6	13.830	4.250	-1.980	0.951	1000.2	1441.5	510.2	83.5	0.889	0.944	1.000	0.112	0.942	0.050	0.033	2.00	3.04
7	14.496	4.250	-1.980	0.953	1001.9	1441.4	511.1	83.6	0.917	0.967	1.000	0.065	0.966	0.045	0.028	1.65	2.68
8	15.162	4.250	-1.980	0.951	1000.0	1441.3	510.1	83.4	0.944	0.994	1.000	0.012	0.993	0.037	0.030	1.76	2.13
9	15.828	4.250	-1.980	0.952	1000.7	1443.5	511.0	83.8	0.965	1.012	0.999	-0.025	1.011	0.031	0.034	1.94	1.73
10	16.494	4.250	-1.980	0.949	998.4	1441.2	509.1	83.5	1.048	1.086	1.000	-0.173	1.085	0.020	0.053	2.79	1.04
11	17.160	4.250	-1.980	0.951	1000.3	1443.2	510.7	83.8	1.068	1.101	0.999	-0.203	1.099	0.014	0.074	3.83	0.75
12	17.826	4.250	-1.980	0.951	1000.2	1440.5	509.8	83.5	0.991	1.035	0.999	-0.072	1.032	0.030	0.073	4.03	1.69
13	18.492	4.250	-1.980	0.951	999.2	1440.2	509.3	83.2	0.941	0.991	0.999	0.017	0.988	0.035	0.064	3.69	2.02
15	19.158	4.250	-1.980	0.950	998.6	1442.1	509.5	83.5	0.929	0.981	0.999	0.036	0.979	0.035	0.056	3.27	2.03
16	19.824	4.250	-1.980	0.952	1000.7	1440.3	510.0	83.5	0.932	0.982	0.999	0.035	0.980	0.035	0.051	2.99	2.02

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

IC-532 355 3.000 5.00

SURVEY ALFAS
403 5.00

DATE
2-18-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.230	0.952	1001.4	1442.4	510.9	84.0	0.922	0.973	0.999	0.053	0.969	0.017	0.091	5.37	1.01
2	11.166	4.250	-1.230	0.951	1000.0	1440.4	509.8	83.4	0.909	0.962	1.001	0.078	0.957	0.026	0.087	5.20	1.53
3	11.832	4.250	-1.230	0.948	997.3	1442.5	509.0	83.3	0.889	0.946	0.999	0.106	0.942	0.039	0.081	4.90	2.39
4	12.498	4.250	-1.230	0.951	999.9	1443.0	510.3	84.0	0.869	0.926	0.999	0.145	0.922	0.058	0.070	4.33	3.63
5	13.164	4.250	-1.230	0.950	999.5	1442.1	509.9	83.7	0.853	0.911	1.000	0.177	0.908	0.070	0.041	2.61	4.40
6	13.830	4.250	-1.230	0.954	1002.2	1442.3	511.5	83.6	0.867	0.922	0.999	0.153	0.919	0.073	0.014	0.87	4.57
7	14.496	4.250	-1.230	0.950	998.5	1441.0	509.2	83.3	0.914	0.968	1.000	0.064	0.966	0.057	0.010	0.61	3.36
8	15.162	4.250	-1.230	0.952	1000.9	1442.0	510.8	83.4	0.948	0.997	1.000	0.007	0.996	0.040	0.017	1.00	2.28
9	15.828	4.250	-1.230	0.952	1000.5	1441.5	510.4	83.4	0.966	1.012	0.999	-0.026	1.011	0.030	0.024	1.37	1.71
10	16.494	4.250	-1.230	0.954	1003.3	1442.0	511.9	83.9	1.105	1.129	0.999	-0.259	1.127	-0.000	0.064	3.24	-0.02
11	17.160	4.250	-1.230	0.951	999.7	1443.0	510.5	83.4	1.026	1.065	0.997	-0.135	1.063	0.012	0.072	3.87	0.63
12	17.826	4.250	-1.230	0.954	1002.1	1441.1	511.3	83.2	0.991	1.033	0.998	-0.068	1.029	0.034	0.073	4.07	1.87
13	18.492	4.250	-1.230	0.952	1001.0	1440.5	510.2	83.7	0.930	0.980	0.999	0.038	0.977	0.038	0.061	3.60	2.23
14	19.158	4.250	-1.230	0.952	1001.0	1443.3	511.2	83.8	0.919	0.970	0.999	0.057	0.968	0.039	0.053	3.14	2.28
15	19.824	4.250	-1.230	0.953	1001.5	1441.6	511.0	83.4	0.927	0.977	1.000	0.046	0.975	0.038	0.047	2.78	2.23

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS

IC-532 356 2.99H 5.00 22 404 5.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	3.500	-2.730	0.948	997.3	1441.3	508.6	83.3	0.930	0.974	1.000	0.051	0.971	0.016	0.080	4.71	0.95
2	10.833	3.500	-2.730	0.948	997.3	1439.5	507.9	83.5	0.913	0.968	1.000	0.063	0.965	0.019	0.078	4.62	1.11
3	11.166	3.500	-2.730	0.950	998.9	1443.4	510.1	83.6	0.907	0.962	0.999	0.075	0.958	0.021	0.075	4.46	1.27
4	11.499	3.500	-2.730	0.951	999.7	1442.4	510.1	83.8	0.902	0.956	0.999	0.085	0.954	0.024	0.071	4.24	1.43
5	11.832	3.500	-2.730	0.950	998.7	1441.0	509.1	83.6	0.898	0.953	1.000	0.094	0.951	0.026	0.066	3.99	1.55
6	12.165	3.500	-2.730	0.951	999.8	1442.8	510.5	83.4	0.896	0.950	1.000	0.100	0.948	0.028	0.062	3.74	1.69
7	12.498	3.500	-2.730	0.952	1000.5	1441.6	510.4	83.6	0.894	0.948	1.000	0.103	0.946	0.029	0.056	3.39	1.78
8	12.831	3.500	-2.730	0.952	1000.2	1442.1	510.5	83.3	0.893	0.947	1.000	0.106	0.945	0.030	0.051	3.10	1.83
9	13.164	3.500	-2.730	0.949	998.4	1442.5	509.5	83.7	0.892	0.948	0.999	0.101	0.947	0.031	0.045	2.74	1.87
10	13.497	3.500	-2.730	0.949	997.6	1439.9	508.2	83.5	0.895	0.951	1.001	0.099	0.950	0.031	0.040	2.40	1.86
11	13.830	3.500	-2.730	0.950	999.1	1441.7	509.6	83.6	0.901	0.956	1.000	0.088	0.955	0.031	0.035	2.11	1.84
12	14.163	3.500	-2.730	0.951	1000.2	1441.9	510.3	83.5	0.910	0.963	0.999	0.073	0.962	0.030	0.033	1.94	1.80
13	14.496	3.500	-2.730	0.948	997.3	1441.8	508.7	83.4	0.920	0.975	1.000	0.050	0.974	0.029	0.031	1.60	1.63
14	14.829	3.500	-2.730	0.949	998.4	1442.5	509.5	83.6	0.934	0.986	0.999	0.027	0.985	0.028	0.032	1.65	1.61
15	15.162	3.500	-2.730	0.950	999.5	1443.1	510.2	83.8	0.937	0.997	1.000	0.005	0.996	0.027	0.034	1.94	1.53
16	15.495	3.500	-2.730	0.951	1000.0	1441.5	510.0	83.7	0.935	1.003	1.000	-0.007	1.002	0.025	0.035	2.00	1.43
17	15.828	3.500	-2.730	0.953	1001.5	1441.9	511.0	83.6	0.965	1.011	1.000	-0.021	1.010	0.023	0.037	2.09	1.31
18	16.161	3.500	-2.730	0.950	999.1	1441.9	509.6	83.8	0.982	1.029	1.000	-0.057	1.028	0.021	0.041	2.26	1.19
19	16.494	3.500	-2.730	0.952	1000.9	1442.9	510.8	84.0	1.021	1.061	0.999	-0.123	1.059	0.020	0.048	2.58	1.07
20	16.827	3.500	-2.730	0.948	997.0	1441.6	508.3	83.8	1.052	1.091	1.000	-0.183	1.089	0.018	0.061	3.22	0.95
21	17.160	3.500	-2.730	0.949	998.6	1443.0	509.7	83.7	1.083	1.099	1.000	-0.198	1.096	0.018	0.070	3.67	0.96
22	17.493	3.500	-2.730	0.952	1001.1	1443.3	511.1	84.0	1.033	1.070	0.999	-0.142	1.068	0.021	0.070	3.76	1.10
23	17.826	3.500	-2.730	0.948	997.5	1440.6	508.4	83.5	0.973	1.022	1.000	-0.045	1.020	0.025	0.066	3.73	1.40
24	18.159	3.500	-2.730	0.951	1000.2	1444.0	511.0	83.7	0.984	1.011	0.999	-0.023	1.009	0.026	0.066	3.72	1.50
25	18.492	3.500	-2.730	0.953	1001.6	1441.7	511.0	83.6	0.952	0.999	0.999	0.000	0.997	0.027	0.062	3.57	1.54
26	18.825	3.500	-2.730	0.948	997.8	1440.8	508.3	84.0	0.938	0.991	1.000	0.018	0.989	0.027	0.058	3.34	1.54
27	19.158	3.500	-2.730	0.950	999.1	1442.5	510.0	83.5	0.937	0.988	1.000	0.024	0.987	0.027	0.056	3.23	1.56
28	19.491	3.500	-2.730	0.952	999.9	1440.2	509.8	83.1	0.936	0.986	0.999	0.026	0.985	0.026	0.054	3.12	1.53

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 357 2.998 5.00 22 405 5.00

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	WL	VM/VL	PI/PT	CPL	UL/VM	VL/VM	WL/VM	AL/VM	SWL
1	10.500	3.500	-1.980	0.950	998.8	1440.7	509.2	83.4	0.914	0.968	0.999	0.001	0.964	0.019	0.084	5.01	1.12
2	10.833	3.500	-1.980	0.951	1000.1	1442.9	510.5	83.9	0.908	0.961	0.999	0.001	0.957	0.022	0.082	4.91	1.33
3	11.166	3.500	-1.980	0.950	999.0	1442.8	509.8	83.9	0.899	0.954	1.000	0.002	0.951	0.027	0.078	4.72	1.63
4	11.499	3.500	-1.980	0.951	999.8	1444.3	510.8	83.9	0.893	0.948	0.999	0.002	0.945	0.031	0.073	4.44	1.87
5	11.832	3.500	-1.980	0.949	998.4	1441.5	509.1	83.6	0.886	0.942	1.000	0.002	0.939	0.035	0.067	4.10	2.11
6	12.165	3.500	-1.980	0.952	1000.7	1443.8	511.1	83.9	0.882	0.937	0.999	0.002	0.935	0.038	0.060	3.65	2.32
7	12.498	3.500	-1.980	0.951	999.6	1441.1	509.7	83.6	0.877	0.933	1.000	0.002	0.931	0.040	0.052	3.22	2.46
8	12.831	3.500	-1.980	0.948	997.1	1440.7	508.2	83.5	0.875	0.933	1.000	0.002	0.931	0.041	0.043	2.65	2.50
9	13.164	3.500	-1.980	0.949	998.1	1442.4	509.4	83.5	0.875	0.933	1.000	0.002	0.931	0.040	0.035	2.14	2.49
10	13.497	3.500	-1.980	0.950	999.5	1443.0	510.2	83.7	0.879	0.935	0.999	0.002	0.934	0.039	0.025	1.56	2.41
11	13.830	3.500	-1.980	0.950	999.6	1442.6	510.1	83.8	0.887	0.942	1.000	0.002	0.941	0.038	0.018	1.11	2.32
12	14.163	3.500	-1.980	0.950	999.3	1441.9	509.8	83.5	0.901	0.956	1.000	0.002	0.955	0.037	0.015	0.91	2.24
13	14.496	3.500	-1.980	0.948	997.0	1441.8	508.5	83.5	0.919	0.974	1.000	0.002	0.974	0.034	0.016	0.96	2.01
14	14.829	3.500	-1.980	0.949	998.5	1441.3	509.1	83.6	0.939	0.991	1.000	0.002	0.990	0.033	0.021	1.20	1.88
15	15.162	3.500	-1.980	0.950	999.2	1441.6	509.8	83.4	0.952	1.001	0.999	0.002	1.001	0.030	0.024	1.40	1.73
16	15.495	3.500	-1.980	0.950	998.9	1440.9	509.4	83.3	0.960	1.009	0.999	0.002	1.008	0.028	0.027	1.56	1.57
17	15.828	3.500	-1.980	0.949	997.7	1442.6	509.2	83.5	0.971	1.020	1.000	0.002	1.019	0.026	0.031	1.72	1.46
18	16.161	3.500	-1.980	0.950	998.6	1441.1	509.1	83.5	1.003	1.047	1.000	0.002	1.046	0.023	0.038	2.09	1.26
19	16.494	3.500	-1.980	0.952	1000.8	1442.5	510.8	83.6	1.063	1.096	0.999	0.002	1.094	0.021	0.055	2.90	1.10
20	16.827	3.500	-1.980	0.947	995.9	1440.1	507.4	83.4	1.097	1.130	1.000	0.002	1.127	0.020	0.080	4.04	1.00
21	17.160	3.500	-1.980	0.949	998.2	1440.1	508.4	83.9	1.042	1.081	0.999	0.002	1.078	0.021	0.073	3.89	1.14
22	17.493	3.500	-1.980	0.950	999.4	1443.0	510.2	83.6	0.979	1.026	0.999	0.002	1.023	0.025	0.070	3.91	1.42
23	17.826	3.500	-1.980	0.952	1001.2	1442.1	510.9	83.6	0.965	1.011	0.998	0.002	1.008	0.029	0.068	3.84	1.67
24	18.159	3.500	-1.980	0.950	999.0	1441.9	509.6	83.7	0.947	0.997	0.998	0.002	0.995	0.031	0.063	3.61	1.79
25	18.492	3.500	-1.980	0.950	999.1	1440.7	509.2	83.7	0.935	0.986	0.999	0.002	0.984	0.031	0.058	3.38	1.78
26	18.825	3.500	-1.980	0.951	999.8	1442.2	510.2	83.6	0.932	0.983	0.999	0.002	0.981	0.031	0.054	3.17	1.80
27	19.158	3.500	-1.980	0.950	998.9	1441.7	509.5	83.6	0.927	0.979	0.999	0.002	0.978	0.031	0.050	2.95	1.79
28	19.491	3.500	-1.980	0.951	1000.1	1441.9	510.3	83.4	0.929	0.980	0.999	0.002	0.978	0.030	0.048	2.62	1.77

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.
AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 358 2.999 5.00 22 406 5.01

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-18-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.230	0.951	999.5	1441.1	509.7	83.5	0.912	0.965	1.000	0.068	0.961	0.021	0.092	5.48	1.25
2	10.833	3.500	-1.230	0.950	999.2	1441.4	509.7	83.4	0.902	0.957	1.000	0.086	0.952	0.026	0.090	5.43	1.58
3	11.166	3.500	-1.230	0.952	1001.0	1443.5	511.1	84.0	0.893	0.947	0.999	0.105	0.942	0.034	0.087	5.26	2.07
4	11.499	3.500	-1.230	0.951	1000.4	1443.3	510.7	84.0	0.881	0.936	1.000	0.126	0.932	0.043	0.082	5.01	2.62
5	11.832	3.500	-1.230	0.948	997.8	1442.3	508.9	84.0	0.867	0.926	1.000	0.148	0.922	0.051	0.071	4.42	3.17
6	12.165	3.500	-1.230	0.949	998.8	1444.6	510.3	83.9	0.858	0.917	1.000	0.165	0.913	0.057	0.059	3.89	3.56
7	12.498	3.500	-1.230	0.950	999.5	1443.7	510.3	84.0	0.852	0.910	1.000	0.177	0.909	0.059	0.044	2.77	3.71
8	12.831	3.500	-1.230	0.950	999.6	1442.9	510.2	83.9	0.849	0.907	1.000	0.194	0.905	0.058	0.031	1.95	3.65
9	13.164	3.500	-1.230	0.951	1000.4	1443.5	511.1	84.0	0.848	0.906	1.000	0.186	0.904	0.054	0.016	0.98	3.44
10	13.497	3.500	-1.230	0.952	1000.9	1442.7	510.7	84.1	0.840	0.898	1.000	0.202	0.897	0.053	-0.011	-0.67	3.36
11	13.830	3.500	-1.230	0.947	997.0	1443.3	508.8	84.0	0.860	0.920	1.000	0.158	0.919	0.048	-0.024	-1.47	3.01
12	14.163	3.500	-1.230	0.948	997.7	1444.6	509.8	83.8	0.895	0.952	1.000	0.096	0.950	0.053	-0.019	-1.16	3.20
13	14.496	3.500	-1.230	0.949	998.7	1443.4	509.8	84.0	0.932	0.984	1.000	0.031	0.983	0.049	-0.005	-0.31	2.80
14	14.829	3.500	-1.230	0.950	999.6	1441.8	509.7	84.0	0.958	1.007	1.000	-0.014	1.006	0.046	0.007	0.38	2.64
15	15.162	3.500	-1.230	0.952	1001.1	1443.5	511.1	84.1	0.959	1.006	1.001	-0.011	1.005	0.042	0.012	0.66	2.42
16	15.495	3.500	-1.230	0.953	1002.7	1444.9	512.4	84.3	0.969	1.014	1.000	-0.028	1.013	0.039	0.017	0.96	2.20
17	15.828	3.500	-1.230	0.949	998.3	1443.9	509.7	84.0	0.975	1.024	1.000	-0.046	1.023	0.035	0.022	1.25	1.98
18	16.161	3.500	-1.230	0.951	998.7	1442.9	510.3	83.7	1.073	1.106	1.000	-0.213	1.105	0.031	0.049	2.52	1.61
19	16.494	3.500	-1.230	0.948	996.1	1442.6	508.0	84.0	1.146	1.170	1.000	-0.340	1.165	0.025	0.112	5.50	1.25
20	16.827	3.500	-1.230	0.947	996.9	1442.3	509.2	84.0	1.091	1.124	0.998	-0.252	1.119	0.027	0.108	5.51	1.40
21	17.160	3.500	-1.230	0.949	998.5	1442.3	509.2	84.2	0.965	1.015	0.995	-0.037	1.011	0.029	0.077	4.37	1.62
22	17.493	3.500	-1.230	0.950	999.1	1443.3	510.2	83.5	0.973	1.020	0.998	-0.044	1.017	0.034	0.074	4.18	1.92
23	17.826	3.500	-1.230	0.952	1000.9	1440.7	510.4	83.3	0.965	1.011	0.999	-0.025	1.008	0.038	0.069	2.91	2.15
24	18.159	3.500	-1.230	0.949	998.1	1442.2	509.1	83.9	0.935	0.988	0.999	0.022	0.965	0.039	0.061	3.53	2.25
25	18.492	3.500	-1.230	0.951	1000.0	1444.9	511.1	84.0	0.926	0.978	0.999	0.042	0.976	0.038	0.055	3.23	2.24
26	18.825	3.500	-1.230	0.953	1001.8	1442.9	511.3	84.0	0.922	0.973	0.999	0.053	0.971	0.038	0.052	3.04	2.26
27	19.158	3.500	-1.230	0.948	997.3	1442.1	508.7	83.7	0.918	0.973	1.000	0.053	0.971	0.038	0.047	2.76	2.22
28	19.491	3.500	-1.230	0.952	1000.8	1444.7	511.4	84.1	0.924	0.976	0.998	0.046	0.974	0.036	0.043	2.51	2.13

DATE 9-MAR-78 PROJECT NO P41C-H0C

ARO, INC.
AEC DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 359 3.001 5.00 22 407 5.00

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	2.750	-2.730	0.952	1000.3	1440.9	510.2	83.3	0.916	0.968	0.999	0.063	0.964	0.017	0.077	4.55	1.03
2	11.166	2.750	-2.730	0.950	998.7	1443.0	509.9	83.5	0.901	0.956	1.000	0.087	0.953	0.022	0.068	4.10	1.30
3	11.832	2.750	-2.730	0.951	999.9	1444.2	510.8	83.9	0.893	0.948	1.000	0.103	0.946	0.024	0.059	3.54	1.46
4	12.498	2.750	-2.730	0.952	1000.7	1442.8	510.8	83.8	0.890	0.944	1.000	0.110	0.943	0.026	0.048	2.92	1.55
5	13.164	2.750	-2.730	0.949	998.9	1443.5	509.8	84.3	0.891	0.948	1.000	0.104	0.947	0.024	0.038	2.30	1.48
6	13.830	2.750	-2.730	0.951	999.8	1444.5	510.8	84.0	0.902	0.956	1.000	0.088	0.955	0.022	0.030	1.81	1.34
7	14.496	2.750	-2.730	0.952	1000.7	1441.6	510.4	83.8	0.923	0.975	1.001	0.052	0.974	0.020	0.026	1.50	1.19
8	15.162	2.750	-2.730	0.953	1002.0	1442.7	511.5	83.8	0.950	0.997	1.000	0.006	0.996	0.020	0.030	1.72	1.12
9	15.828	2.750	-2.730	0.950	999.7	1441.1	509.4	84.2	0.968	1.016	1.000	-0.031	1.015	0.018	0.035	1.56	1.03
10	16.494	2.750	-2.730	0.951	1000.6	1442.4	510.5	84.1	1.022	1.062	1.001	-0.123	1.061	0.017	0.045	2.44	0.94
11	17.160	2.750	-2.730	0.951	1000.1	1445.4	511.2	84.1	1.031	1.104	0.999	-0.208	1.101	0.020	0.068	3.52	1.05
12	17.826	2.750	-2.730	0.950	998.9	1443.4	509.9	84.0	0.976	1.024	1.000	-0.047	1.022	0.022	0.063	3.33	1.25
13	18.492	2.750	-2.730	0.952	1001.2	1443.1	511.1	84.0	0.949	0.998	1.000	0.004	0.996	0.023	0.057	3.29	1.35
14	19.158	2.750	-2.730	0.951	1000.1	1444.4	510.8	84.1	0.937	0.988	0.999	0.023	0.987	0.022	0.051	2.98	1.31
15	19.824	2.750	-2.730	0.954	1002.7	1442.5	511.7	84.0	0.937	0.985	1.000	0.029	0.984	0.022	0.048	2.80	1.27

DATE 9-MAR-78 PROJECT NO P41C-NUC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 360 2.997 5.00 22 408 5.01

DATE 2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.980	0.952	1000.8	1440.8	510.2	83.8	0.910	0.962	1.000	0.075	0.958	0.022	0.081	4.85	1.33
2	11.166	2.750	-1.980	0.953	1002.0	1443.9	511.8	83.9	0.891	0.944	1.000	0.111	0.941	0.029	0.070	4.26	1.76
3	11.832	2.750	-1.980	0.949	997.8	1441.4	508.8	83.6	0.877	0.934	1.000	0.137	0.932	0.034	0.056	3.43	2.07
4	12.498	2.750	-1.980	0.950	999.1	1443.0	509.9	84.0	0.874	0.931	1.000	0.137	0.930	0.034	0.040	2.46	2.10
5	13.164	2.750	-1.980	0.951	1000.5	1443.7	510.9	84.0	0.879	0.934	1.000	0.132	0.933	0.030	0.027	1.65	1.87
6	13.830	2.750	-1.980	0.949	998.2	1442.4	509.4	83.6	0.890	0.946	1.000	0.108	0.946	0.024	0.013	0.81	1.44
7	14.496	2.750	-1.980	0.951	1000.5	1441.3	510.1	84.0	0.921	0.972	1.000	0.055	0.972	0.022	0.011	0.66	1.28
8	15.162	2.750	-1.980	0.950	1000.0	1444.2	510.6	84.4	0.956	1.005	1.000	-0.009	1.004	0.022	0.020	1.15	1.25
9	15.828	2.750	-1.980	0.952	1000.8	1443.5	511.1	83.9	0.975	1.021	1.000	-0.042	1.020	0.020	0.028	1.55	1.14
10	16.494	2.750	-1.980	0.950	999.6	1445.1	510.7	84.4	1.060	1.096	1.000	-0.192	1.094	0.022	0.049	2.58	1.16
11	17.160	2.750	-1.980	0.953	1002.2	1444.1	512.0	84.0	1.075	1.105	0.999	-0.211	1.102	0.026	0.074	3.85	1.34
12	17.826	2.750	-1.980	0.950	999.1	1441.4	509.5	83.6	0.956	1.005	0.999	-0.011	1.003	0.028	0.062	3.52	1.57
13	18.492	2.750	-1.980	0.950	999.8	1443.5	510.4	84.1	0.939	0.990	0.998	0.017	0.988	0.027	0.054	3.11	1.56
14	19.158	2.750	-1.980	0.951	1000.2	1443.7	510.7	84.1	0.928	0.980	0.999	0.038	0.978	0.026	0.046	2.70	1.51
15	19.824	2.750	-1.980	0.951	1000.1	1443.7	510.7	83.9	0.931	0.982	0.999	0.034	0.981	0.025	0.043	2.49	1.47

DATE 9-4-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 361 2.999 5.00 22

SURVEY ALFAS
409 5.01

DATE
2-18-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	G	TT	ML	VMU/VM	PTU/PT	CPL	UL/VM	VL/VM	KL/VM	AAL	SWL
1	10.500	2.750	-1.230	0.949	998.1	1443.9	509.6	84.0	0.901	0.957	1.000	0.086	0.952	0.028	0.091	5.44	1.87
2	11.166	2.750	-1.230	0.950	999.5	1444.9	510.8	83.8	0.872	0.929	0.999	0.140	0.925	0.043	0.075	4.67	2.84
3	11.832	2.750	-1.230	0.951	1000.1	1443.3	510.6	83.9	0.852	0.910	1.000	0.179	0.907	0.051	0.047	2.98	3.21
4	12.498	2.750	-1.230	0.953	1002.0	1443.2	511.5	84.0	0.853	0.909	0.999	0.180	0.908	0.046	0.024	1.50	2.90
5	13.164	2.750	-1.230	0.950	998.9	1444.2	510.2	83.9	0.859	0.917	1.000	0.184	0.917	0.034	0.008	0.51	2.11
6	13.830	2.750	-1.230	0.951	999.8	1442.6	510.2	83.8	0.869	0.926	1.000	0.148	0.926	0.012	-0.014	-0.85	0.77
7	14.496	2.750	-1.230	0.952	1000.6	1441.8	510.4	83.7	0.923	0.974	1.000	0.052	0.974	0.015	-0.015	-0.88	0.91
8	15.162	2.750	-1.230	0.951	999.9	1443.5	510.6	83.8	0.968	1.016	0.999	-0.032	1.015	0.020	0.002	0.12	1.10
9	15.828	2.750	-1.230	0.949	998.1	1443.0	509.3	84.0	0.979	1.027	1.000	-0.053	1.027	0.018	0.014	0.78	1.02
10	16.494	2.750	-1.230	0.950	999.3	1442.4	509.3	83.7	1.122	1.146	1.000	-0.292	1.144	0.042	0.068	3.41	2.09
11	17.160	2.750	-1.230	0.952	1000.8	1441.9	510.6	83.8	1.000	1.042	0.996	-0.091	1.040	0.030	0.068	3.74	1.66
12	17.826	2.750	-1.230	0.952	1000.6	1441.5	510.3	83.7	0.941	0.990	0.996	0.014	0.988	0.030	0.059	3.39	1.77
13	18.492	2.750	-1.230	0.951	1000.1	1443.3	510.6	84.0	0.921	0.973	0.996	0.048	0.971	0.030	0.048	2.85	1.76
14	19.158	2.750	-1.230	0.952	1001.5	1444.0	511.5	84.2	0.918	0.969	0.998	0.057	0.968	0.028	0.041	2.41	1.66
15	19.824	2.750	-1.230	0.950	998.9	1442.4	509.7	83.6	0.921	0.974	0.997	0.048	0.973	0.027	0.034	2.00	1.56

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARQ, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 362 2.999 5.00 22 410 5.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	N	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-2.730	0.950	999.2	1442.4	509.8	83.8	0.915	0.969	1.000	0.062	0.966	-0.021	0.075	4.41	-1.23
2	11.833	-2.750	-2.730	0.952	1000.8	1443.2	511.0	83.7	0.892	0.946	1.000	0.108	0.943	-0.028	0.060	3.63	-1.72
3	13.166	-2.750	-2.730	0.952	1001.1	1445.1	511.8	84.0	0.891	0.945	0.999	0.109	0.944	-0.029	0.038	2.30	-1.76
4	14.499	-2.750	-2.730	0.952	1001.5	1444.6	511.6	84.4	0.921	0.973	0.999	0.053	0.972	-0.024	0.025	1.48	-1.43
5	15.832	-2.750	-2.730	0.952	1000.7	1444.7	511.4	84.0	0.969	1.015	1.000	-0.032	1.015	-0.022	0.034	1.92	-1.25
6	17.165	-2.750	-2.730	0.953	1001.5	1441.2	510.8	83.6	1.076	1.106	1.000	-0.213	1.104	-0.024	0.070	3.62	-1.27
7	18.498	-2.750	-2.730	0.950	999.2	1442.5	509.7	84.0	0.947	0.998	1.000	0.005	0.996	-0.026	0.055	3.16	-1.51
9	19.831	-2.750	-2.730	0.950	998.6	1440.8	509.0	83.6	0.935	0.987	1.000	0.025	0.986	-0.026	0.045	2.64	-1.49

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 363 2,999 5.00 22 411 5.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SKL
1	10.500	-2.750	-1.230	0.949	998.6	1442.6	509.6	83.7	0.899	0.955	1.000	0.090	0.950	-0.031	0.093	5.56	-1.84
2	11.833	-2.750	-1.230	0.952	1000.9	1441.6	510.4	84.0	0.849	0.906	1.000	0.186	0.903	-0.055	0.049	3.08	-3.49
3	13.166	-2.750	-1.230	0.953	1001.7	1441.7	511.6	83.8	0.857	0.913	1.000	0.172	0.912	-0.037	0.008	0.51	-2.30
4	14.499	-2.750	-1.230	0.948	997.1	1442.5	508.6	83.8	0.921	0.976	1.000	0.049	0.975	-0.019	-0.017	-0.99	-1.14
5	15.832	-2.750	-1.230	0.950	998.9	1443.7	510.1	83.9	0.984	1.030	0.999	-0.062	1.030	-0.021	0.013	0.75	-1.16
6	17.165	-2.750	-1.230	0.955	1003.6	1444.4	512.9	84.0	0.978	1.020	0.996	-0.047	1.018	-0.032	0.063	3.53	-1.80
7	18.498	-2.750	-1.230	0.954	1003.0	1443.5	512.1	84.3	0.920	0.970	0.996	0.054	0.968	-0.031	0.045	2.68	-1.61
9	19.831	-2.750	-1.230	0.949	998.4	1443.2	509.5	84.1	0.922	0.976	0.997	0.043	0.975	-0.028	0.030	1.78	-1.65

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 376 2.999 0.00 22 401 0.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VW	PT	Q	TT	ML	VML/VW	PTL/PT	CPL	UL/VW	VL/VW	WL/VW	PAL	SWL
11	10.500	4.250	-2.730	1.050	1084.1	1397.4	536.9	81.8	1.115	1.050	0.998	-0.103	1.050	-0.000	0.004	0.21	-0.00
12	11.166	4.250	-2.730	1.052	1085.6	1396.8	537.4	81.8	1.104	1.040	0.997	-0.083	1.040	0.003	0.000	0.01	0.18
13	11.832	4.250	-2.730	1.054	1087.1	1397.8	538.5	81.7	1.054	1.000	0.998	-0.003	1.000	0.011	-0.011	-0.61	0.64
14	12.498	4.250	-2.730	1.048	1082.8	1398.2	536.6	81.9	1.059	1.008	0.999	-0.017	1.008	0.010	-0.016	-0.88	0.57
15	13.164	4.250	-2.730	1.050	1084.3	1397.7	537.1	81.9	1.056	1.005	0.999	-0.010	1.005	0.009	-0.019	-1.11	0.50
16	13.830	4.250	-2.730	1.052	1085.9	1398.3	538.0	81.9	1.028	0.981	0.998	0.035	0.981	0.009	-0.030	-1.74	0.52
17	14.496	4.250	-2.730	1.048	1082.1	1397.8	536.1	81.9	1.045	0.998	0.998	0.002	0.997	0.008	-0.032	-1.82	0.48
18	15.162	4.250	-2.730	1.053	1086.4	1398.0	538.2	81.8	1.094	1.032	0.999	-0.065	1.031	0.004	-0.031	-1.15	0.20
19	15.828	4.250	-2.730	1.052	1085.2	1396.3	537.1	81.5	1.133	1.062	0.998	-0.125	1.062	0.000	-0.003	-0.15	0.00
20	16.494	4.250	-2.730	1.049	1083.2	1396.1	536.2	81.4	1.154	1.079	0.996	-0.162	1.079	-0.007	0.019	0.99	-0.36
21	17.160	4.250	-2.730	1.053	1086.9	1396.9	538.0	81.7	1.149	1.072	0.995	-0.149	1.072	-0.006	0.020	1.06	-0.30
23	17.826	4.250	-2.730	1.050	1083.4	1395.7	536.5	81.5	1.186	1.103	0.995	-0.208	1.101	-0.022	0.054	2.81	-1.15
24	18.492	4.250	-2.730	1.053	1086.5	1395.7	537.5	81.5	1.219	1.123	0.990	-0.253	1.121	-0.023	0.069	3.52	-1.17
25	19.158	4.250	-2.730	1.049	1083.4	1396.3	536.3	81.5	1.196	1.044	0.991	-0.097	1.043	-0.009	0.022	1.23	-0.48
26	19.824	4.250	-2.730	1.053	1086.3	1397.6	538.0	81.8	0.990	0.950	0.993	0.090	0.950	-0.010	0.001	0.08	-0.62

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 377 3.001 0.00 22 402 0.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PT/PT	CPL	UL/VM	VL/VM	WL/VM	ARL	SWL
1	10.500	4.250	-1.980	1.051	1084.8	1397.6	537.4	81.6	1.112	1.046	0.998	-0.095	1.046	-0.000	0.003	0.17	-0.01
2	11.156	4.250	-1.980	1.049	1083.4	1396.5	536.4	81.5	1.093	1.034	0.998	-0.070	1.034	0.006	-0.002	-0.12	0.36
3	11.832	4.250	-1.980	1.052	1085.1	1395.8	536.9	81.4	1.050	0.998	0.999	0.002	0.998	0.015	-0.012	-0.67	0.86
4	12.498	4.250	-1.980	1.052	1085.8	1396.9	537.6	81.5	1.054	1.002	0.998	-0.005	1.001	0.015	-0.018	-1.01	0.86
5	13.164	4.250	-1.980	1.051	1085.0	1397.0	537.2	81.7	1.053	1.001	0.999	-0.003	1.001	0.011	-0.023	-1.34	0.85
6	13.830	4.250	-1.980	1.052	1085.8	1398.4	538.1	81.8	1.005	0.963	0.998	0.073	0.962	0.014	-0.037	-2.22	0.84
7	14.496	4.250	-1.980	1.050	1084.1	1398.4	537.3	81.8	1.061	1.009	0.999	-0.018	1.008	0.010	-0.037	-2.12	0.59
8	15.162	4.250	-1.980	1.053	1086.5	1398.0	538.2	81.8	1.121	1.052	0.999	-0.105	1.052	0.000	-0.018	-0.57	0.02
9	15.828	4.250	-1.980	1.050	1083.9	1396.3	536.4	81.8	1.155	1.080	0.996	-0.163	1.080	-0.005	0.007	0.38	-0.29
10	16.494	4.250	-1.980	1.054	1087.4	1398.5	538.8	81.9	1.160	1.080	0.994	-0.166	1.080	-0.006	0.011	0.61	-0.29
11	17.160	4.250	-1.980	1.051	1085.0	1397.9	537.6	81.5	1.194	1.107	0.995	-0.217	1.106	-0.021	0.045	2.35	-1.11
12	17.826	4.250	-1.980	1.052	1085.7	1396.6	537.5	81.4	1.246	1.143	0.988	-0.294	1.139	-0.043	0.094	4.71	-2.19
13	18.492	4.250	-1.980	1.047	1081.4	1396.9	535.6	81.6	1.192	1.109	0.993	-0.224	1.107	-0.014	0.065	3.34	-0.73
14	19.158	4.250	-1.980	1.051	1084.7	1396.2	536.9	81.4	0.990	0.952	0.990	0.083	0.952	-0.007	0.007	0.42	-0.43
15	19.824	4.250	-1.980	1.049	1083.2	1396.7	536.4	81.4	1.023	0.979	0.997	0.038	0.979	-0.008	0.004	0.24	-0.49

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 378 2.998 0.00 22 403 0.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.230	1.050	1084.0	1396.6	536.6	81.7	1.111	1.047	0.997	-0.097	1.047	0.001	0.003	0.18	0.03
2	11.156	4.250	-1.230	1.053	1085.6	1397.4	537.9	81.4	1.065	1.010	0.997	-0.022	1.009	0.012	-0.003	-0.15	0.66
3	11.832	4.250	-1.230	1.054	1087.1	1396.5	538.0	81.5	1.042	0.991	0.999	0.017	0.990	0.020	-0.009	-0.55	1.18
5	12.498	4.250	-1.230	1.052	1085.5	1396.9	537.5	81.4	1.047	0.996	0.998	0.006	0.996	0.022	-0.020	-1.14	1.28
6	13.164	4.250	-1.230	1.054	1086.9	1397.2	538.2	81.6	1.052	0.999	0.999	0.001	0.998	0.017	-0.030	-1.72	0.98
7	13.830	4.250	-1.230	1.050	1084.2	1397.1	536.9	81.7	0.962	0.929	0.998	0.139	0.928	0.027	-0.049	-3.00	1.66
8	14.496	4.250	-1.230	1.051	1085.3	1396.8	537.2	81.8	1.075	1.018	0.999	-0.038	1.017	0.016	-0.048	-2.67	0.88
9	15.162	4.250	-1.230	1.049	1083.2	1397.1	536.4	81.7	1.155	1.091	0.997	-0.163	1.080	-0.007	-0.009	-0.46	-0.37
10	15.828	4.250	-1.230	1.053	1086.1	1397.0	537.7	81.7	1.177	1.093	0.992	-0.194	1.093	-0.012	0.014	0.74	-0.62
11	16.494	4.250	-1.230	1.049	1082.8	1395.9	535.9	81.5	1.178	1.098	0.995	-0.199	1.097	-0.021	0.023	1.18	-1.10
12	17.160	4.250	-1.230	1.053	1086.2	1396.9	537.8	81.5	1.273	1.161	0.987	-0.329	1.157	-0.064	0.082	4.07	-3.18
13	17.826	4.250	-1.230	1.050	1084.0	1396.4	536.5	81.7	1.176	1.095	0.974	-0.218	1.093	-0.021	0.077	4.04	-1.12
14	18.492	4.250	-1.230	1.049	1083.7	1398.7	537.2	81.8	1.080	1.023	0.989	-0.060	1.023	-0.003	0.020	1.11	-0.18
15	19.158	4.250	-1.230	1.052	1086.0	1399.1	538.3	82.0	1.047	0.996	0.997	0.004	0.996	-0.008	0.007	0.39	-0.44
16	19.824	4.250	-1.230	1.050	1084.0	1397.0	536.9	81.5	1.042	0.994	0.998	0.010	0.994	-0.009	0.009	0.51	-0.54

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 379 2,999 0.00 22

SURVEY ALFAS 404 0.02

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	ANL	SWL
1	10.500	3.500	-2.730	1.052	1086.4	1397.5	537.9	82.0	1.109	1.043	0.998	-0.089	1.043	0.000	0.003	0.17	0.01
2	10.833	3.500	-2.730	1.052	1085.6	1398.0	537.9	81.7	1.104	1.040	0.998	-0.083	1.040	0.002	0.001	0.04	0.11
3	11.166	3.500	-2.730	1.051	1085.1	1398.2	537.0	81.7	1.089	1.029	0.998	-0.061	1.029	0.006	-0.004	-0.22	0.33
4	11.499	3.500	-2.730	1.051	1085.1	1395.6	536.8	81.6	1.062	1.008	0.999	-0.018	1.008	0.009	-0.010	-0.57	0.48
5	11.832	3.500	-2.730	1.052	1085.6	1395.9	537.3	81.4	1.056	1.003	0.998	-0.007	1.003	0.010	-0.014	-0.82	0.57
6	12.165	3.500	-2.730	1.051	1084.9	1398.4	537.9	81.4	1.062	1.008	0.998	-0.018	1.008	0.009	-0.016	-0.92	0.50
7	12.498	3.500	-2.730	1.051	1084.7	1396.3	536.8	81.5	1.061	1.008	0.999	-0.017	1.008	0.008	-0.018	-1.01	0.46
8	12.831	3.500	-2.730	1.052	1085.3	1396.1	537.1	81.5	1.065	1.010	0.999	-0.021	1.010	0.007	-0.019	-1.06	0.42
9	13.164	3.500	-2.730	1.053	1086.9	1397.6	538.3	81.8	1.062	1.007	0.998	-0.016	1.007	0.006	-0.021	-1.19	0.34
10	13.497	3.500	-2.730	1.054	1087.5	1398.5	538.8	81.8	1.043	0.992	0.999	0.016	0.991	0.005	-0.021	-1.55	0.27
12	13.830	3.500	-2.730	1.048	1084.4	1398.1	536.4	81.9	1.014	0.973	0.999	0.052	0.973	0.004	-0.032	-1.87	0.21
13	14.163	3.500	-2.730	1.054	1087.4	1398.1	538.7	81.6	1.034	0.984	0.998	0.029	0.984	0.003	-0.034	-2.00	0.17
14	14.496	3.500	-2.730	1.051	1084.9	1396.9	537.2	81.5	1.052	1.001	1.000	-0.001	1.000	0.003	-0.032	-1.86	0.15
15	14.829	3.500	-2.730	1.052	1085.9	1397.3	537.8	81.5	1.077	1.019	0.999	-0.039	1.018	0.002	-0.027	-1.51	0.09
16	15.162	3.500	-2.730	1.053	1086.1	1395.5	537.2	81.6	1.096	1.033	0.999	-0.068	1.033	0.002	-0.018	-1.01	0.10
17	15.495	3.500	-2.730	1.050	1083.6	1396.7	536.5	81.6	1.118	1.052	0.998	-0.106	1.052	0.002	-0.008	-0.46	0.13
18	15.828	3.500	-2.730	1.052	1085.9	1396.6	537.5	81.6	1.137	1.064	0.998	-0.130	1.064	0.001	0.002	0.12	0.06
19	16.161	3.500	-2.730	1.051	1085.3	1397.1	537.4	81.7	1.149	1.074	0.996	-0.152	1.074	0.001	0.010	0.55	0.06
20	16.494	3.500	-2.730	1.050	1084.0	1398.0	537.2	81.7	1.163	1.085	0.996	-0.174	1.085	-0.002	0.020	1.06	-0.09
21	16.827	3.500	-2.730	1.052	1085.7	1398.6	538.0	82.0	1.145	1.071	0.993	-0.150	1.071	-0.001	0.015	0.79	-0.07
22	17.160	3.500	-2.730	1.053	1086.5	1397.8	538.1	81.9	1.161	1.082	0.997	-0.166	1.082	-0.003	0.025	1.31	-0.17
23	17.493	3.500	-2.730	1.049	1083.5	1398.5	537.1	81.8	1.170	1.092	0.996	-0.186	1.091	-0.012	0.046	2.43	-0.60
24	17.826	3.500	-2.730	1.051	1084.7	1397.9	537.3	81.9	1.198	1.110	0.994	-0.224	1.104	-0.014	0.064	3.32	-0.70
25	18.159	3.500	-2.730	1.052	1085.2	1397.0	537.6	82.0	1.224	1.128	0.992	-0.260	1.124	-0.015	0.083	4.22	-0.77
26	18.492	3.500	-2.730	1.053	1087.1	1400.0	539.2	82.0	1.193	1.105	0.988	-0.221	1.104	-0.013	0.053	2.74	-0.70
27	18.825	3.500	-2.730	1.049	1083.1	1396.4	536.2	81.6	1.178	1.097	0.993	-0.201	1.096	-0.012	0.059	3.07	-0.65
28	19.158	3.500	-2.730	1.051	1084.9	1398.0	537.5	81.8	1.133	1.063	0.992	-0.134	1.062	-0.007	0.026	1.42	-0.38
29	19.491	3.500	-2.730	1.051	1085.5	1397.9	537.6	82.0	0.989	0.951	0.991	0.087	0.951	-0.006	0.007	0.43	-0.34

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6

ALFA

CONFIC

22

VM

405

PT

0.02

ALFAS

DATE

2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	N	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.980	1.050	1083.6	1397.6	536.8	81.7	1.115	1.050	0.997	-0.104	1.050	0.000	0.002	0.12	0.03
2	10.833	3.500	-1.980	1.049	1083.6	1398.0	536.9	81.9	1.069	1.014	0.998	-0.076	1.037	0.004	-0.001	-0.07	0.25
3	11.166	3.500	-1.980	1.050	1084.6	1398.5	537.5	82.0	1.069	1.014	0.997	-0.032	1.014	0.010	-0.007	-0.42	0.55
4	11.499	3.500	-1.980	1.050	1084.3	1398.0	537.2	81.9	1.049	0.999	0.998	-0.000	0.999	0.013	-0.012	-0.71	0.74
5	11.832	3.500	-1.980	1.052	1085.7	1398.7	538.0	82.0	1.050	0.999	0.999	0.001	0.998	0.014	-0.016	-0.94	0.80
6	12.165	3.500	-1.980	1.052	1086.3	1398.2	538.1	82.0	1.052	0.999	0.999	0.000	0.999	0.013	-0.020	-1.13	0.77
7	12.498	3.500	-1.980	1.052	1086.0	1396.5	537.5	81.7	1.054	1.002	0.999	-0.005	1.001	0.011	-0.022	-1.27	0.62
8	12.831	3.500	-1.980	1.050	1083.6	1396.5	536.5	81.5	1.058	1.006	0.998	-0.014	1.006	0.007	-0.024	-1.38	0.42
9	13.164	3.500	-1.980	1.050	1084.3	1396.2	536.6	81.6	1.055	1.004	0.999	-0.009	1.004	0.005	-0.025	-1.45	0.29
10	13.497	3.500	-1.980	1.053	1086.4	1397.2	538.6	82.0	1.016	0.971	0.998	0.036	0.970	0.004	-0.035	-2.04	0.25
11	13.830	3.500	-1.980	1.053	1086.5	1397.7	538.1	81.8	0.994	0.954	0.999	0.091	0.953	0.003	-0.042	-2.50	0.23
12	14.163	3.500	-1.980	1.054	1087.2	1396.9	538.1	81.7	1.033	0.984	0.999	0.032	0.983	0.003	-0.044	-2.57	0.15
13	14.496	3.500	-1.980	1.051	1085.0	1397.7	537.5	81.6	1.069	1.014	0.998	-0.029	1.013	0.001	-0.038	-2.12	0.06
14	14.829	3.500	-1.980	1.052	1085.4	1395.9	537.0	81.7	1.105	1.041	0.999	-0.083	1.041	-0.001	-0.025	-1.40	-0.05
15	15.162	3.500	-1.980	1.054	1087.4	1397.8	538.6	81.7	1.131	1.058	0.998	-0.118	1.058	-0.002	-0.012	-0.66	-0.10
17	15.495	3.500	-1.980	1.052	1086.0	1397.5	537.7	82.1	1.148	1.073	0.998	-0.148	1.073	-0.002	0.004	0.20	-0.12
18	15.828	3.500	-1.980	1.050	1084.3	1396.9	536.8	81.7	1.164	1.086	0.996	-0.175	1.086	-0.003	0.015	0.81	-0.15
19	16.161	3.500	-1.980	1.052	1086.0	1398.1	537.9	82.0	1.173	1.091	0.995	-0.186	1.091	-0.005	0.017	0.89	-0.26
20	16.494	3.500	-1.980	1.053	1086.5	1397.6	538.0	81.9	1.156	1.078	0.994	-0.161	1.078	-0.003	0.016	0.87	-0.18
21	16.827	3.500	-1.980	1.052	1085.9	1398.5	538.2	81.7	1.183	1.098	0.995	-0.200	1.098	-0.006	0.036	1.89	-0.29
22	17.160	3.500	-1.980	1.052	1085.9	1398.2	538.0	82.0	1.218	1.124	0.993	-0.251	1.122	-0.009	0.064	3.28	-0.48
23	17.493	3.500	-1.980	1.052	1085.9	1397.7	537.7	82.0	1.251	1.147	0.989	-0.300	1.143	-0.014	0.093	4.54	-0.68
24	17.826	3.500	-1.980	1.053	1087.2	1398.2	538.5	82.1	1.221	1.125	0.984	-0.262	1.123	-0.012	0.054	2.76	-0.62
25	18.159	3.500	-1.980	1.050	1084.7	1398.2	537.4	82.0	1.184	1.101	0.991	-0.210	1.099	-0.015	0.066	3.41	-0.79
26	18.492	3.500	-1.980	1.053	1086.8	1398.5	538.4	82.0	1.195	1.106	0.992	-0.219	1.104	-0.015	0.070	3.61	-0.76
27	18.825	3.500	-1.980	1.047	1081.6	1396.3	535.4	81.8	1.047	1.000	0.992	-0.010	1.000	-0.003	0.016	0.91	-0.15
28	19.158	3.500	-1.980	1.049	1083.0	1397.7	536.6	81.6	0.998	0.960	0.993	0.070	0.960	-0.003	0.007	0.41	-0.20
29	19.491	3.500	-1.980	1.051	1084.5	1397.5	537.3	81.5	1.027	0.981	0.998	0.035	0.981	-0.005	0.005	0.27	-0.31

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 381 3.000 0.00 22

CONFIG 406

SURVEY ALFAS

0.02

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VMU/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	10.500	3.500	-1.230	1.051	1085.0	1397.4	537.4	81.7	1.101	1.038	0.997	-0.080	1.038	0.003	0.001	0.08	0.18
2	10.833	3.500	-1.230	1.052	1085.5	1397.6	537.8	81.5	1.071	1.015	0.997	-0.033	1.015	0.010	-0.003	-0.17	0.58
3	11.166	3.500	-1.230	1.052	1085.7	1396.6	537.4	81.6	1.043	0.993	0.997	0.011	0.993	0.015	-0.007	-0.42	0.89
4	11.499	3.500	-1.230	1.052	1086.0	1395.9	537.3	81.6	1.037	0.988	0.999	0.022	0.988	0.020	-0.012	-0.70	1.13
5	11.832	3.500	-1.230	1.053	1086.4	1395.8	537.5	81.5	1.038	0.988	0.999	0.023	0.988	0.022	-0.016	-1.02	1.26
6	12.165	3.500	-1.230	1.049	1083.0	1397.0	536.3	81.8	1.043	0.995	0.999	0.008	0.995	0.020	-0.025	-1.44	1.17
7	12.498	3.500	-1.230	1.051	1085.1	1397.6	537.5	81.7	1.043	0.994	0.999	0.011	0.993	0.017	-0.030	-1.73	0.99
8	12.831	3.500	-1.230	1.052	1085.5	1395.5	536.9	81.5	1.048	0.997	0.999	0.004	0.997	0.011	-0.033	-1.92	0.66
9	13.164	3.500	-1.230	1.053	1086.4	1396.4	537.7	81.5	1.054	1.001	0.999	-0.003	1.000	0.006	-0.034	-1.97	0.35
10	13.497	3.500	-1.230	1.053	1086.2	1396.3	537.6	81.5	0.951	0.919	0.999	0.152	0.917	0.006	-0.055	-3.44	0.40
11	13.830	3.500	-1.230	1.048	1082.4	1397.7	536.3	81.8	0.939	0.913	0.998	0.173	0.910	0.004	-0.073	-4.56	0.28
12	14.163	3.500	-1.230	1.051	1084.9	1398.7	537.7	81.9	1.031	0.985	0.998	0.029	0.982	-0.000	-0.067	-3.90	-0.02
13	14.496	3.500	-1.230	1.052	1085.7	1398.1	537.8	82.0	1.103	1.039	0.999	-0.080	1.038	-0.007	-0.047	-2.57	-0.36
14	14.829	3.500	-1.230	1.053	1086.6	1396.8	537.7	82.0	1.139	1.066	0.998	-0.133	1.066	-0.010	-0.023	-1.24	-0.51
15	15.162	3.500	-1.230	1.049	1083.4	1396.8	536.3	82.0	1.159	1.084	0.996	-0.170	1.084	-0.010	-0.003	-0.14	-0.54
16	15.495	3.500	-1.230	1.051	1085.5	1398.0	537.7	82.0	1.171	1.090	0.992	-0.187	1.090	-0.013	0.011	0.58	-0.65
17	15.828	3.500	-1.230	1.049	1083.4	1398.7	537.0	82.0	1.147	1.075	0.987	-0.164	1.075	-0.014	0.004	0.23	-0.74
18	16.161	3.500	-1.230	1.051	1085.0	1399.1	537.9	82.0	1.161	1.083	0.992	-0.174	1.083	-0.010	0.017	0.91	-0.54
19	16.494	3.500	-1.230	1.053	1086.5	1399.8	538.9	81.9	1.235	1.135	0.993	-0.273	1.133	-0.019	0.074	3.74	-0.95
20	16.827	3.500	-1.230	1.053	1086.4	1397.1	537.9	81.7	1.291	1.174	0.985	-0.353	1.165	-0.028	0.139	6.92	-1.38
21	17.160	3.500	-1.230	1.050	1084.4	1397.8	537.3	81.7	1.200	1.112	0.975	-0.249	1.111	-0.013	0.047	2.43	-0.67
22	17.493	3.500	-1.230	1.052	1085.3	1396.4	537.1	81.7	1.191	1.105	0.989	-0.219	1.103	-0.015	0.060	3.14	-0.80
23	17.826	3.500	-1.230	1.053	1086.4	1396.5	537.6	81.7	1.203	1.112	0.991	-0.231	1.110	-0.012	0.067	3.44	-0.80
24	18.159	3.500	-1.230	1.053	1086.8	1397.6	538.3	81.6	1.183	1.097	0.989	-0.205	1.096	-0.008	0.047	2.44	-0.40
25	18.492	3.500	-1.230	1.050	1084.0	1398.2	537.2	81.7	1.069	1.015	0.991	-0.041	1.015	-0.005	0.022	1.24	-0.28
26	18.825	3.500	-1.230	1.052	1086.1	1398.4	538.2	81.8	1.055	1.002	0.994	-0.012	1.002	-0.004	0.011	0.63	-0.23
27	19.158	3.500	-1.230	1.054	1087.2	1399.5	539.1	81.9	1.066	1.010	0.998	-0.022	1.010	-0.007	0.008	0.46	-0.37
28	19.491	3.500	-1.230	1.047	1082.1	1398.3	536.3	82.0	1.054	1.005	0.999	-0.012	1.005	-0.008	0.012	0.66	-0.48

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

IC-532 392 2.996 0.00 22 407 0.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SRL
1	10.500	2.750	-2.730	1.051	1085.3	1396.1	537.0	81.7	1.106	1.042	0.997	-0.086	1.042	0.001	0.002	0.13	0.05
2	11.166	2.750	-2.730	1.049	1083.8	1398.3	537.0	82.0	1.077	1.022	0.998	-0.046	1.022	0.006	-0.008	-0.46	0.31
3	11.832	2.750	-2.730	1.052	1085.6	1399.9	538.5	82.0	1.056	1.004	0.998	-0.010	1.004	0.007	-0.017	-0.97	0.39
4	12.498	2.750	-2.730	1.053	1086.5	1399.1	538.5	82.0	1.063	1.008	0.999	-0.017	1.008	0.005	-0.019	-1.08	0.30
5	13.164	2.750	-2.730	1.049	1081.5	1396.9	536.5	81.7	1.060	1.008	0.999	-0.018	1.008	0.001	-0.020	-1.13	0.08
6	13.830	2.750	-2.730	1.052	1085.5	1396.7	537.3	81.7	1.020	0.975	0.999	0.048	0.975	-0.002	-0.030	-1.77	-0.14
7	14.496	2.750	-2.730	1.054	1087.6	1397.3	538.5	81.7	1.051	0.998	0.999	0.003	0.997	-0.003	-0.031	-1.77	-0.17
8	15.162	2.750	-2.730	1.050	1086.2	1396.8	536.8	81.6	1.094	1.034	0.999	-0.068	1.034	0.000	-0.016	-0.66	0.02
9	15.828	2.750	-2.730	1.047	1082.2	1399.3	536.7	82.0	1.135	1.067	0.997	-0.137	1.067	0.003	0.005	0.25	0.10
10	16.494	2.750	-2.730	1.051	1085.2	1397.9	537.6	81.7	1.165	1.086	0.996	-0.176	1.086	0.005	0.025	1.31	0.25
11	17.160	2.750	-2.730	1.051	1084.6	1396.5	536.8	81.7	1.159	1.082	0.996	-0.167	1.082	-0.002	0.028	1.46	-0.08
12	17.826	2.750	-2.730	1.055	1088.2	1398.1	539.0	81.7	1.217	1.121	0.992	-0.247	1.119	0.002	0.058	2.94	0.10
13	18.492	2.750	-2.730	1.050	1084.3	1396.0	536.5	81.7	1.199	1.111	0.989	-0.232	1.110	-0.013	0.059	3.06	-0.55
14	19.158	2.750	-2.730	1.053	1086.9	1396.9	538.0	81.8	1.142	1.067	0.991	-0.144	1.067	-0.003	0.025	1.32	-0.43
15	19.824	2.750	-2.730	1.050	1083.5	1396.4	536.4	81.6	1.019	0.976	0.998	0.045	0.976	-0.004	0.003	0.20	-0.24

DATE 9-MAR-78 PROJECT NO P41C-N0C

V ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 383 2.999 0.00 22 408 0.02

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	WL	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SNL
1	10.500	2.750	-1.980	1.050	1084.7	1398.2	537.4	82.0	1.099	1.037	0.997	-0.077	1.037	0.003	0.000	0.01	0.16
2	11.166	2.750	-1.980	1.052	1085.6	1397.4	537.5	82.0	1.047	0.996	0.998	0.005	0.996	0.010	-0.013	-0.72	0.57
3	11.832	2.750	-1.980	1.053	1086.9	1399.8	539.0	82.1	1.048	0.996	0.998	0.006	0.996	0.010	-0.022	-1.25	0.58
4	12.498	2.750	-1.980	1.049	1083.7	1398.5	537.1	82.0	1.050	1.001	0.999	-0.003	1.001	0.005	-0.025	-1.44	0.31
5	13.164	2.750	-1.980	1.052	1085.7	1398.1	538.1	82.1	1.057	1.004	0.999	-0.010	1.004	0.001	-0.025	-1.40	0.05
6	13.830	2.750	-1.980	1.053	1087.2	1399.0	538.8	82.1	0.996	0.955	0.999	0.088	0.954	-0.007	-0.037	-2.24	-0.43
7	14.496	2.750	-1.980	1.052	1086.0	1399.1	538.2	82.2	1.064	1.010	0.999	-0.021	1.009	-0.007	-0.033	-1.86	-0.39
8	15.162	2.750	-1.980	1.053	1087.0	1398.2	538.4	82.0	1.125	1.055	0.997	-0.113	1.055	-0.001	-0.008	-0.43	-0.05
9	15.828	2.750	-1.980	1.051	1085.3	1398.0	538.0	82.1	1.163	1.085	0.997	-0.172	1.085	0.001	0.017	0.89	0.04
10	16.494	2.750	-1.980	1.054	1087.4	1398.4	538.7	81.9	1.153	1.075	0.991	-0.159	1.075	-0.001	0.020	1.06	-0.07
11	17.160	2.750	-1.980	1.052	1085.3	1395.8	536.9	81.7	1.214	1.121	0.993	-0.246	1.120	0.009	0.058	2.96	0.45
12	17.826	2.750	-1.980	1.050	1083.8	1396.8	536.6	81.7	1.240	1.142	0.985	-0.293	1.138	0.006	0.085	4.25	0.31
13	18.492	2.750	-1.980	1.053	1086.5	1395.9	537.8	81.8	1.182	1.097	0.990	-0.204	1.096	-0.010	0.058	3.03	-0.53
14	19.158	2.750	-1.980	1.049	1083.8	1399.4	537.4	82.1	1.017	0.975	0.994	0.042	0.975	-0.002	0.007	0.43	-0.10
15	19.824	2.750	-1.980	1.053	1086.9	1399.0	538.7	82.1	1.031	0.983	0.997	0.030	0.983	-0.005	0.004	0.23	-0.32

DATE 9-MAR-78 PROJECT NO P41C-N0C

AEC, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 384 3.003 0.00 22 409 0.02

DATE 2-20-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	1.052	1046.3	1399.5	538.6	82.1	1.074	1.017	0.998	-0.037	1.017	0.008	-0.003	-0.16	0.43
2	11.166	2.750	-1.230	1.048	1043.0	1399.1	536.9	82.1	1.039	0.993	0.998	0.012	0.992	0.017	-0.016	-0.94	0.98
3	11.832	2.750	-1.230	1.050	1044.8	1398.5	537.5	82.1	1.039	0.991	0.999	0.016	0.991	0.016	-0.030	-1.72	0.93
4	12.498	2.750	-1.230	1.052	1045.9	1398.4	537.9	82.2	1.043	0.993	0.999	0.012	0.992	0.007	-0.035	-2.02	0.42
5	13.164	2.750	-1.230	1.054	1047.9	1394.7	538.9	82.2	1.047	0.995	0.998	0.008	0.994	-0.001	-0.032	-1.86	-0.03
6	13.830	2.750	-1.230	1.050	1044.6	1398.3	537.4	81.9	0.953	0.922	0.999	0.154	0.921	-0.023	-0.048	-3.01	-1.42
7	14.496	2.750	-1.230	1.053	1046.6	1394.8	538.5	81.9	1.086	1.026	0.998	-0.054	1.025	-0.015	-0.041	-2.31	-0.82
8	15.162	2.750	-1.230	1.049	1042.9	1396.7	536.1	81.7	1.165	1.088	0.996	-0.179	1.068	-0.000	0.010	0.54	-0.01
9	15.828	2.750	-1.230	1.052	1045.8	1396.3	537.2	81.9	1.156	1.079	0.991	-0.167	1.079	-0.003	0.013	0.68	0.16
10	16.494	2.750	-1.230	1.051	1045.4	1398.0	537.6	82.1	1.205	1.115	0.995	-0.234	1.114	0.013	0.047	2.43	0.66
11	17.160	2.750	-1.230	1.055	1048.6	1400.3	539.9	82.1	1.308	1.184	0.981	-0.376	1.176	0.054	0.121	5.89	2.65
12	17.826	2.750	-1.230	1.051	1045.5	1399.6	538.3	82.1	1.201	1.112	0.990	-0.232	1.110	-0.006	0.069	3.57	-0.32
13	18.492	2.750	-1.230	1.049	1043.6	1398.3	537.0	81.8	1.046	0.997	0.992	-0.005	0.997	-0.001	0.020	1.17	-0.03
14	19.158	2.750	-1.230	1.051	1045.1	1397.1	537.2	81.8	1.060	1.007	0.997	-0.017	1.007	-0.001	0.010	0.57	-0.06
15	19.824	2.750	-1.230	1.052	1046.0	1399.2	538.3	82.2	1.054	1.002	0.998	-0.005	1.001	-0.004	0.008	0.47	-0.24

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 385 3.001 0.00 22 410 0.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPD	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-2.730	1.052	1085.4	1398.9	538.4	82.1	1.099	1.036	0.998	-0.074	1.036	-0.000	0.001	0.06	-0.01
2	11.833	-2.750	-2.730	1.054	1087.7	1398.0	538.6	82.1	1.049	0.996	0.999	0.007	0.996	-0.008	-0.016	-0.95	-0.44
3	13.166	-2.750	-2.730	1.053	1086.3	1398.4	538.3	81.7	1.062	1.007	0.998	-0.016	1.007	-0.002	-0.021	-1.18	-0.14
4	14.499	-2.750	-2.730	1.047	1081.4	1397.1	535.5	82.0	1.046	0.999	0.999	0.000	0.999	0.003	-0.029	-1.67	0.15
5	15.832	-2.750	-2.730	1.052	1085.7	1397.8	537.8	81.9	1.135	1.063	0.997	-0.129	1.063	-0.002	0.004	0.22	-0.13
6	17.165	-2.750	-2.730	1.047	1081.6	1398.7	536.1	82.2	1.149	1.079	0.997	-0.160	1.078	0.005	0.034	1.79	0.28
7	18.498	-2.750	-2.730	1.048	1083.1	1398.6	536.8	82.2	1.191	1.107	0.989	-0.224	1.106	0.012	0.058	2.99	0.64
8	19.831	-2.750	-2.730	1.048	1083.0	1398.9	536.8	82.2	1.033	0.988	0.999	0.022	0.988	0.006	0.003	0.16	0.35

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

IC-532 386 2.998 0.00 22 411 0.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-1.230	1.049	1084.0	1398.1	537.0	82.1	1.079	1.023	0.998	-0.048	1.023	-0.007	-0.003	-0.16	-0.40
2	11.833	-2.750	-1.230	1.052	1086.3	1398.6	538.2	82.3	1.033	0.985	0.999	0.028	0.985	-0.016	-0.029	-1.67	-0.91
3	13.166	-2.750	-1.230	1.051	1084.9	1398.6	537.7	82.0	1.041	0.993	0.998	0.013	0.992	0.001	-0.032	-1.86	0.06
4	14.499	-2.750	-1.230	1.054	1088.0	1398.4	539.0	82.0	1.084	1.023	0.998	-0.049	1.022	0.017	-0.039	-2.18	0.96
5	15.832	-2.750	-1.230	1.051	1085.0	1400.3	538.2	82.2	1.167	1.088	0.992	-0.184	1.088	0.006	0.015	0.80	0.32
6	17.165	-2.750	-1.230	1.050	1084.6	1399.2	537.7	82.1	1.298	1.181	0.983	-0.370	1.175	-0.055	0.112	5.46	-2.66
7	18.498	-2.750	-1.230	1.051	1085.1	1399.4	538.1	82.0	1.032	0.985	0.991	0.018	0.985	0.003	0.012	0.68	0.17
8	19.831	-2.750	-1.230	1.049	1083.4	1398.9	537.1	82.0	1.053	1.003	0.998	-0.010	1.003	0.007	0.010	0.57	0.39

DATE 8-MAR-78 PROJECT NO P41C-N0C

AEO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART AEX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 392 3.002 2.00 22 401 2.01

DATE 2-20-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL/L	SWL
12	10.500	4.250	-2.730	1.049	1080.3	1387.7	533.0	78.5	1.119	1.053	0.997	-0.109	1.052	0.001	0.040	2.16	0.08
13	11.166	4.250	-2.730	1.050	1081.2	1386.7	533.0	78.6	1.103	1.041	0.998	-0.1084	1.040	0.006	0.038	2.10	0.31
14	11.832	4.250	-2.730	1.052	1082.3	1387.8	533.9	78.4	1.040	0.991	0.998	0.016	0.991	0.017	0.024	1.37	1.00
15	12.498	4.250	-2.730	1.048	1079.2	1387.6	532.5	78.4	1.035	0.990	0.999	0.019	0.989	0.021	0.015	0.89	1.19
16	13.164	4.250	-2.730	1.049	1080.0	1386.1	532.3	78.4	1.018	0.975	1.000	0.049	0.975	0.023	0.007	0.44	1.34
17	13.830	4.250	-2.730	1.051	1081.6	1385.6	532.9	78.4	0.987	0.949	0.999	0.100	0.949	0.024	-0.004	-0.21	1.43
19	14.496	4.250	-2.730	1.047	1078.1	1385.6	531.2	78.5	1.019	0.978	1.000	0.044	0.978	0.023	-0.006	-0.33	1.36
20	15.162	4.250	-2.730	1.049	1080.2	1386.1	532.3	78.5	1.065	1.012	0.999	-0.025	1.012	0.019	0.003	0.18	1.07
21	15.828	4.250	-2.730	1.053	1082.9	1385.1	533.2	78.4	1.106	1.041	0.999	-0.084	1.041	0.014	0.018	0.97	0.79
23	16.494	4.250	-2.730	1.051	1081.9	1388.3	534.0	78.4	1.107	1.043	0.997	-0.089	1.042	0.007	0.025	1.35	0.37
24	17.160	4.250	-2.730	1.054	1084.2	1387.0	534.5	78.4	1.132	1.059	0.998	-0.120	1.059	0.003	0.035	1.90	0.16
25	17.826	4.250	-2.730	1.054	1083.8	1387.3	534.4	78.4	1.170	1.087	0.995	-0.179	1.085	-0.010	0.088	3.56	-0.54
26	18.492	4.250	-2.730	1.052	1081.9	1386.8	533.4	78.3	1.166	1.086	0.991	-0.181	1.084	-0.001	0.070	3.69	-0.05
27	19.158	4.250	-2.730	1.051	1081.6	1386.1	533.0	78.5	1.166	1.087	0.993	-0.180	1.085	0.005	0.069	3.62	0.27
28	19.824	4.250	-2.730	1.054	1083.7	1384.7	533.4	78.3	0.991	0.950	0.992	0.089	0.950	0.007	0.025	1.49	0.44

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARC, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 393 2.997 2.00

SURVEY ALPAS
402 2.01

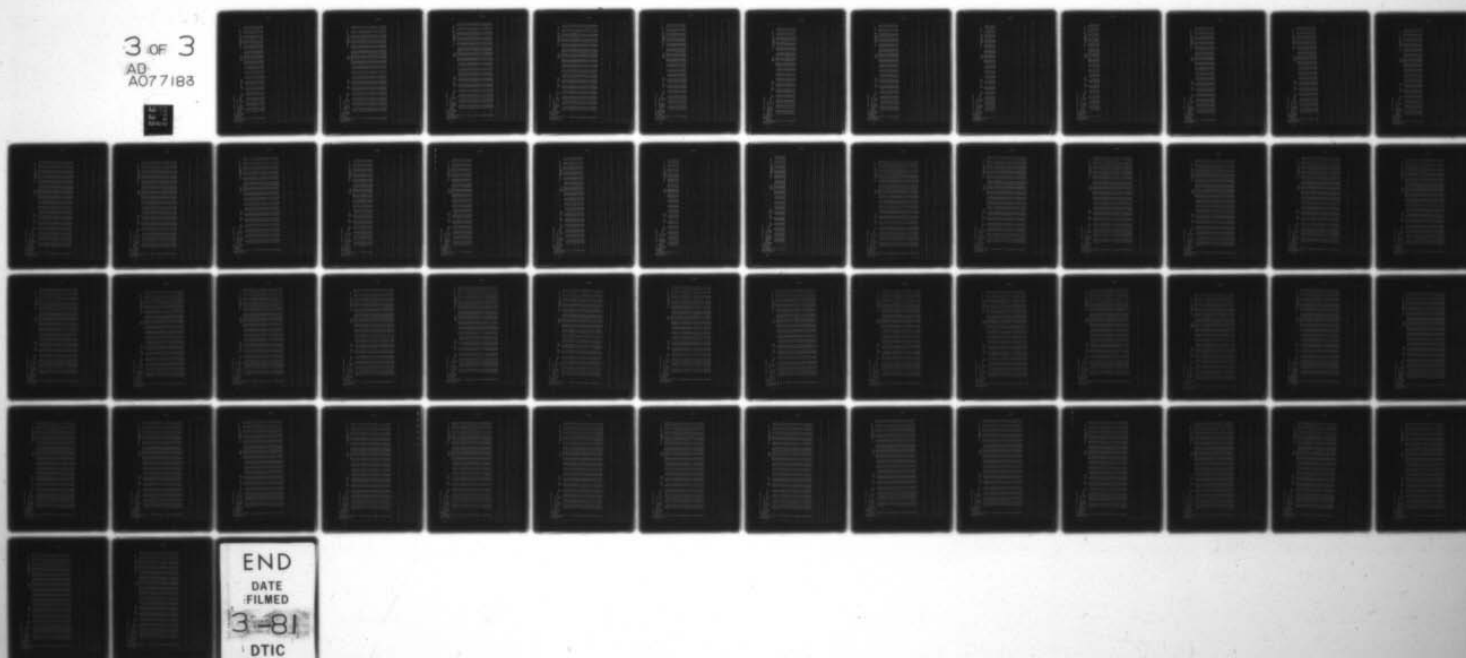
DATE
2-20-78

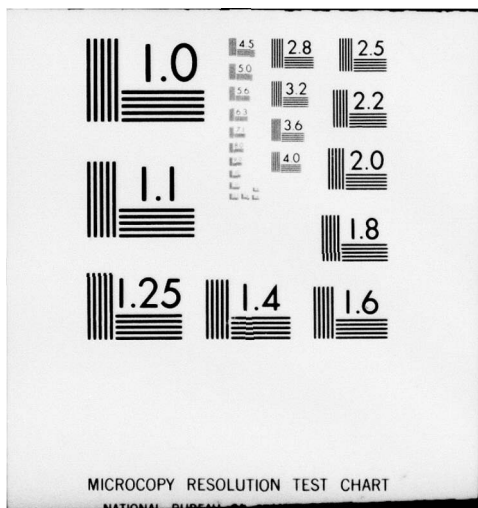
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.980	1.050	1060.4	1385.2	532.1	78.4	1.113	1.049	0.999	-0.099	1.048	0.001	0.041	2.24	0.06
2	11.156	4.250	-1.980	1.052	1062.6	1385.5	533.3	78.3	1.077	1.019	0.998	-0.041	1.018	0.011	0.034	1.91	0.61
3	11.832	4.250	-1.980	1.052	1062.6	1386.5	533.6	78.4	1.034	0.985	0.998	0.026	0.985	0.022	0.025	1.45	1.28
4	12.458	4.250	-1.980	1.050	1060.8	1386.7	532.9	78.3	1.031	0.985	0.998	0.028	0.984	0.027	0.016	0.92	1.58
5	13.164	4.250	-1.980	1.050	1060.8	1385.3	532.4	78.3	1.005	0.964	0.998	0.069	0.964	0.029	0.006	0.38	1.73
6	13.830	4.250	-1.980	1.053	1062.9	1384.1	532.8	78.3	0.965	0.930	0.999	0.138	0.930	0.034	-0.010	-0.63	2.09
7	14.436	4.250	-1.980	1.055	1064.5	1386.1	534.3	78.3	1.033	0.983	0.999	0.033	0.982	0.030	-0.012	-0.72	1.73
8	15.162	4.250	-1.980	1.051	1061.7	1384.0	532.3	78.3	1.032	1.032	0.999	-0.064	1.032	0.019	0.004	0.24	1.07
9	15.828	4.250	-1.980	1.055	1064.5	1385.6	534.1	78.3	1.128	1.055	0.998	-0.113	1.055	0.011	0.021	1.13	0.61
10	16.494	4.250	-1.980	1.052	1062.3	1387.5	533.9	78.3	1.113	1.046	0.996	-0.098	1.046	0.008	0.023	1.24	0.41
11	17.150	4.250	-1.980	1.053	1063.4	1385.6	533.6	78.3	1.170	1.083	0.995	-0.180	1.087	-0.011	0.059	3.13	-0.60
12	17.826	4.250	-1.980	1.050	1060.9	1385.7	532.6	78.3	1.199	1.104	0.991	-0.216	1.101	-0.015	0.078	4.04	-0.80
13	18.492	4.250	-1.980	1.049	1079.6	1384.5	531.5	78.3	1.176	1.096	0.994	-0.197	1.093	0.002	0.077	4.05	0.08
14	19.158	4.250	-1.980	1.049	1079.7	1384.0	531.5	78.1	0.992	0.955	0.991	0.078	0.954	0.012	0.027	1.64	0.73
15	19.824	4.250	-1.980	1.050	1080.4	1382.9	531.4	78.1	1.034	0.987	0.998	0.024	0.987	0.009	0.022	1.29	0.51

AD-A077 183 NIELSEN ENGINEERING AND RESEARCH INC MOUNTAIN VIEW CALIF F/G 20/4
DATA REPORT FOR A TEST PROGRAM TO STUDY TRANSONIC FLOW FIELDS A--ETC(U)
MAY 78 S S STAHARA, A J CRISALLI F44620-75-C-0047
UNCLASSIFIED NEAR-TR-163-VOL-2 AFOSR-TR-79-1071 N/L

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A077183





DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A STEEDRUP CORPORATION COMPANY

PROPELSION WIND TUNNEL

ARMOUR AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIC SURVEY ALFAS

TC-S32 394 3.000 2.00 22 403 2.01

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.230	1.052	1081.3	1383.5	532.2	77.7	1.110	1.045	0.998	-0.093	1.044	0.000	0.041	2.24	0.03
2	11.166	4.250	-1.230	1.052	1081.6	1382.6	531.9	77.7	1.059	1.006	0.998	-0.014	1.005	0.015	0.035	2.02	0.88
3	11.832	4.250	-1.230	1.053	1082.4	1381.4	531.9	77.6	1.029	0.982	0.999	0.036	0.981	0.029	0.030	1.74	1.69
4	12.498	4.250	-1.230	1.047	1077.6	1385.1	531.1	77.7	1.018	0.977	0.999	0.044	0.976	0.037	0.018	1.03	2.15
5	13.164	4.250	-1.230	1.048	1077.9	1382.9	530.5	77.6	0.978	0.944	1.000	0.111	0.943	0.040	0.001	0.03	2.44
6	13.830	4.250	-1.230	1.050	1080.0	1382.2	531.2	77.5	0.931	0.905	0.998	0.189	0.903	0.052	-0.024	-1.50	3.27
7	14.496	4.250	-1.230	1.053	1082.4	1383.0	532.5	77.5	1.044	0.993	0.998	0.012	0.992	0.037	-0.024	-1.41	2.15
8	15.162	4.250	-1.230	1.050	1080.0	1384.1	531.9	77.5	1.095	1.035	0.998	-0.071	1.035	0.014	-0.001	-0.07	0.79
9	15.828	4.250	-1.230	1.053	1082.1	1382.5	532.2	77.5	1.097	1.034	0.996	-0.073	1.034	0.010	0.007	0.39	0.53
10	16.494	4.250	-1.230	1.052	1081.2	1383.6	532.2	77.5	1.157	1.080	0.997	-0.162	1.079	-0.010	0.039	2.05	-0.52
11	17.160	4.250	-1.230	1.050	1079.7	1383.9	531.7	77.4	1.233	1.136	0.990	-0.278	1.130	-0.056	0.100	5.08	-2.86
12	17.826	4.250	-1.230	1.051	1080.9	1383.2	532.0	77.4	1.175	1.093	0.993	-0.191	1.090	-0.005	0.077	4.06	-0.26
13	18.492	4.250	-1.230	1.050	1079.5	1382.0	530.9	77.5	1.112	1.048	0.993	-0.103	1.047	0.012	0.039	2.13	0.66
14	19.158	4.250	-1.230	1.054	1083.0	1382.8	532.8	77.4	1.049	0.996	0.998	0.004	0.996	0.010	0.023	1.31	0.58
15	19.824	4.250	-1.230	1.046	1076.5	1383.0	530.0	77.4	1.038	0.994	0.998	0.010	0.993	0.009	0.024	1.39	0.49

DATE 8-MAR-78 PROJECT NO P41C-W0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 395 3.000 2.00 22 404 2.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWI
1	10.500	3.500	-2.730	1.049	1079.2	1383.1	531.2	77.4	1.117	1.052	0.997	-0.106	1.051	0.003	0.041	2.25	0.17
2	10.833	3.500	-2.730	1.050	1079.5	1382.5	531.2	77.3	1.110	1.046	0.997	-0.095	1.046	0.004	0.039	2.16	0.25
3	11.166	3.500	-2.730	1.051	1080.4	1382.3	531.4	77.4	1.084	1.026	0.998	-0.054	1.025	0.009	0.031	1.73	0.53
4	11.499	3.500	-2.730	1.052	1081.1	1383.1	532.2	77.2	1.043	0.993	0.998	0.012	0.993	0.015	0.024	1.36	0.87
5	11.832	3.500	-2.730	1.052	1081.5	1382.4	532.1	77.1	1.037	0.988	0.998	0.023	0.987	0.018	0.018	1.03	1.03
6	12.165	3.500	-2.730	1.053	1082.3	1381.5	532.1	77.2	1.037	0.987	0.998	0.024	0.987	0.019	0.014	0.90	1.12
7	12.498	3.500	-2.730	1.054	1082.4	1380.9	531.9	77.1	1.034	0.985	0.999	0.029	0.985	0.020	0.010	0.60	1.14
8	12.831	3.500	-2.730	1.049	1078.7	1381.4	530.4	77.2	1.028	0.984	1.000	0.032	0.983	0.019	0.006	0.38	1.11
9	13.164	3.500	-2.730	1.051	1080.2	1381.5	531.1	77.2	1.019	0.975	0.999	0.050	0.974	0.019	0.002	0.10	1.09
10	13.497	3.500	-2.730	1.053	1081.7	1383.4	532.5	77.2	1.000	0.958	0.999	0.082	0.958	0.018	-0.004	-0.25	1.07
11	13.830	3.500	-2.730	1.054	1082.4	1382.4	532.5	77.1	0.990	0.950	0.998	0.098	0.950	0.019	-0.009	-0.54	1.12
12	14.163	3.500	-2.730	1.054	1082.8	1380.2	531.8	77.1	0.997	0.955	0.999	0.089	0.955	0.017	-0.011	-0.65	1.05
13	14.496	3.500	-2.730	1.050	1079.0	1381.8	530.8	77.1	1.026	0.981	0.999	0.036	0.981	0.017	-0.010	-0.56	1.01
14	14.829	3.500	-2.730	1.051	1080.4	1382.7	531.7	77.1	1.054	1.002	0.999	-0.005	1.002	0.017	-0.005	-0.29	0.95
15	15.162	3.500	-2.730	1.053	1081.6	1381.8	531.9	77.1	1.075	1.018	0.999	-0.036	1.017	0.016	0.001	0.08	0.91
16	15.495	3.500	-2.730	1.055	1083.4	1381.2	532.5	77.1	1.098	1.033	0.999	-0.068	1.033	0.015	0.010	0.56	0.84
17	15.828	3.500	-2.730	1.050	1079.5	1382.1	531.1	77.2	1.112	1.048	0.999	-0.097	1.048	0.013	0.019	1.03	0.70
18	16.161	3.500	-2.730	1.053	1081.8	1382.8	532.3	77.2	1.125	1.055	0.997	-0.113	1.055	0.012	0.025	1.36	0.64
19	16.494	3.500	-2.730	1.054	1082.7	1382.9	532.9	77.0	1.121	1.051	0.997	-0.105	1.051	0.010	0.025	1.38	0.56
20	16.827	3.500	-2.730	1.050	1079.5	1380.8	530.6	77.1	1.107	1.044	0.998	-0.090	1.044	0.004	0.028	1.55	0.22
21	17.160	3.500	-2.730	1.052	1080.8	1381.7	531.3	77.1	1.135	1.064	0.998	-0.130	1.063	0.003	0.041	2.19	0.14
22	17.493	3.500	-2.730	1.053	1082.3	1382.6	532.5	77.1	1.163	1.083	0.997	-0.168	1.081	0.002	0.055	2.89	0.10
23	17.826	3.500	-2.730	1.050	1079.3	1381.3	530.7	77.1	1.179	1.097	0.996	-0.197	1.094	-0.003	0.078	3.96	0.15
24	18.159	3.500	-2.730	1.052	1081.0	1381.8	531.6	77.1	1.184	1.099	0.993	-0.204	1.097	-0.003	0.074	3.88	0.14
25	18.492	3.500	-2.730	1.052	1081.2	1382.6	532.1	77.0	1.157	1.079	0.991	-0.168	1.077	-0.004	0.064	3.41	0.24
26	18.825	3.500	-2.730	1.051	1079.9	1383.2	531.7	77.1	1.169	1.089	0.995	-0.183	1.087	-0.001	0.071	3.75	0.06
27	19.158	3.500	-2.730	1.052	1080.7	1381.7	531.5	77.1	1.137	1.065	0.994	-0.136	1.064	0.008	0.049	2.63	0.44
28	19.491	3.500	-2.730	1.052	1081.3	1381.6	531.7	77.1	1.053	1.001	0.993	-0.010	1.000	0.011	0.029	1.69	0.62

DATE 8-MAR-78 PROJECT NO PA1C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 401 2.999 2.00

SURVEY ALFAS 405 2.01

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SML
1	10.500	3.500	-1.980	1.050	1082.6	1391.6	534.8	80.1	1.110	1.046	0.999	-0.093	1.045	0.003	0.040	2.18	0.14
2	10.833	3.500	-1.980	1.051	1083.6	1391.7	535.3	80.1	1.092	1.031	0.999	-0.064	1.031	0.008	0.035	1.94	0.14
3	11.166	3.500	-1.980	1.052	1084.3	1391.4	535.4	80.1	1.053	1.001	0.999	-0.002	1.000	0.015	0.028	1.62	0.85
4	11.499	3.500	-1.980	1.051	1083.4	1392.9	535.6	80.2	1.041	0.992	0.999	0.014	0.992	0.020	0.022	1.30	1.13
5	11.832	3.500	-1.980	1.052	1084.5	1393.7	536.4	80.3	1.038	0.989	0.999	0.021	0.988	0.023	0.017	0.97	1.33
6	12.165	3.500	-1.980	1.052	1084.4	1391.2	535.4	80.2	1.035	0.986	1.000	0.027	0.986	0.025	0.013	0.73	1.53
7	12.498	3.500	-1.980	1.053	1085.3	1392.6	536.3	80.3	1.031	0.983	1.000	0.034	0.982	0.025	0.008	0.45	1.47
8	12.831	3.500	-1.980	1.048	1080.3	1391.7	533.8	80.1	1.025	0.982	1.000	0.036	0.982	0.024	0.003	0.16	1.37
9	13.164	3.500	-1.980	1.049	1082.0	1392.2	534.7	80.1	1.009	0.968	0.999	0.064	0.967	0.022	-0.003	-0.19	1.30
10	13.497	3.500	-1.980	1.051	1083.5	1392.9	535.6	80.3	0.977	0.941	1.000	0.117	0.941	0.022	-0.013	-0.79	1.34
11	13.830	3.500	-1.980	1.053	1084.9	1392.7	536.2	80.3	0.968	0.932	0.999	0.135	0.932	0.022	-0.021	-1.31	1.35
12	14.163	3.500	-1.980	1.051	1083.4	1392.5	535.4	80.3	0.993	0.954	1.000	0.092	0.954	0.020	-0.023	-1.37	1.21
13	14.496	3.500	-1.980	1.053	1085.4	1393.8	536.8	80.4	1.046	0.994	1.000	0.011	0.994	0.020	-0.018	-1.05	1.14
17	14.829	3.500	-1.980	1.050	1083.0	1394.0	535.7	80.4	1.080	1.023	1.000	-0.046	1.022	0.018	-0.008	-0.44	0.99
18	15.162	3.500	-1.980	1.048	1081.1	1393.6	534.6	80.7	1.102	1.042	1.000	-0.084	1.042	0.015	0.005	0.27	0.82
19	15.495	3.500	-1.980	1.049	1082.4	1393.3	535.1	80.6	1.124	1.057	0.999	-0.114	1.057	0.013	0.015	0.83	0.72
20	15.828	3.500	-1.980	1.051	1084.0	1393.5	535.9	80.6	1.135	1.064	0.998	-0.129	1.063	0.010	0.024	1.31	0.56
21	16.161	3.500	-1.980	1.053	1085.7	1393.9	536.8	80.6	1.123	1.053	0.997	-0.108	1.053	0.009	0.020	1.11	0.49
23	16.494	3.500	-1.980	1.051	1081.2	1394.4	534.9	80.8	1.114	1.051	0.999	-0.103	1.050	0.002	0.032	1.72	0.10
24	16.827	3.500	-1.980	1.051	1083.6	1393.6	535.7	80.7	1.159	1.082	0.998	-0.165	1.081	0.002	0.049	2.60	0.11
25	17.160	3.500	-1.980	1.052	1085.2	1393.7	536.4	80.9	1.194	1.106	0.996	-0.214	1.104	0.000	0.074	3.82	0.03
26	17.493	3.500	-1.980	1.047	1081.0	1396.1	535.4	81.0	1.199	1.114	0.993	-0.233	1.111	-0.007	0.091	4.70	-0.38
27	17.826	3.500	-1.980	1.051	1084.6	1395.2	536.6	81.2	1.155	1.078	0.990	-0.167	1.077	-0.005	0.059	3.16	-0.25
28	18.159	3.500	-1.980	1.053	1085.9	1395.5	537.3	81.1	1.163	1.083	0.995	-0.170	1.081	-0.005	0.068	3.61	-0.26
29	18.492	3.500	-1.980	1.049	1082.5	1397.2	536.3	81.4	1.155	1.081	0.996	-0.165	1.079	0.002	0.067	3.54	0.08
30	18.825	3.500	-1.980	1.049	1082.9	1395.7	535.9	81.4	1.092	1.033	0.995	-0.072	1.032	0.012	0.035	1.99	0.65
31	19.158	3.500	-1.980	1.051	1084.9	1396.2	537.0	81.4	1.034	0.987	0.994	0.019	0.986	0.012	0.026	1.53	0.70
33	19.491	3.500	-1.980	1.047	1081.3	1395.4	535.4	81.6	1.037	0.992	1.000	0.016	0.992	0.010	0.024	1.36	0.56

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 402 2.998 2.00 22

SURVEY ALFAS 406 2.02

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SNL
1	10.500	3.500	-1.230	1.050	1084.4	1396.4	536.7	81.7	1.107	1.009	0.998	-0.088	1.043	0.004	0.040	2.22	0.23
2	10.833	3.500	-1.230	1.053	1086.7	1398.8	538.7	81.6	1.065	1.009	0.998	-0.021	1.009	0.013	0.035	1.97	0.73
3	11.166	3.500	-1.230	1.052	1085.4	1397.4	537.6	81.6	1.039	0.990	0.999	0.018	0.989	0.021	0.030	1.75	1.21
4	11.499	3.500	-1.230	1.052	1085.8	1395.3	536.9	81.7	1.031	0.983	1.000	0.034	0.983	0.027	0.026	1.50	1.56
5	11.832	3.500	-1.230	1.054	1087.3	1396.4	538.0	81.8	1.024	0.977	1.000	0.046	0.976	0.032	0.021	1.21	1.85
9	12.165	3.500	-1.230	1.049	1083.5	1400.6	537.8	81.9	1.012	0.971	0.999	0.057	0.970	0.035	0.010	0.59	2.07
10	12.498	3.500	-1.230	1.050	1084.3	1399.3	537.6	82.0	1.000	0.961	0.999	0.077	0.960	0.035	0.001	0.07	2.11
11	12.831	3.500	-1.230	1.050	1084.3	1397.7	537.1	82.0	0.997	0.958	1.000	0.084	0.957	0.033	-0.006	-0.36	1.90
12	13.164	3.500	-1.230	1.052	1086.2	1398.8	538.3	82.1	0.999	0.958	1.000	0.083	0.958	0.030	-0.013	-0.77	1.79
13	13.497	3.500	-1.230	1.053	1087.2	1399.2	538.9	82.0	0.926	0.898	0.999	0.203	0.897	0.030	-0.036	-2.31	1.93
14	13.830	3.500	-1.230	1.053	1086.7	1397.7	538.1	81.9	0.924	0.896	1.000	0.208	0.894	0.030	-0.052	-3.33	1.93
15	14.163	3.500	-1.230	1.051	1085.1	1396.4	537.0	81.8	0.988	0.950	1.001	0.101	0.949	0.028	-0.048	-2.90	1.69
16	14.496	3.500	-1.230	1.047	1081.7	1400.5	536.9	82.0	1.070	1.018	0.999	-0.037	1.017	0.023	-0.030	-1.66	1.31
17	14.829	3.500	-1.230	1.050	1084.4	1399.7	537.8	82.0	1.129	1.059	0.998	-0.086	1.042	0.019	-0.009	-0.49	1.02
18	15.162	3.500	-1.230	1.051	1085.5	1399.6	538.3	82.0	1.129	1.059	0.998	-0.121	1.059	0.017	0.009	0.47	0.93
19	15.495	3.500	-1.230	1.053	1087.3	1398.9	538.8	82.1	1.129	1.058	0.996	-0.120	1.058	0.010	0.012	0.57	0.53
20	15.828	3.500	-1.230	1.051	1085.2	1396.8	537.0	82.1	1.107	1.043	0.994	-0.093	1.043	0.007	0.010	0.56	0.39
21	16.161	3.500	-1.230	1.047	1081.9	1397.8	536.0	82.0	1.133	1.066	0.998	-0.133	1.066	0.005	0.030	1.63	0.27
22	16.494	3.500	-1.230	1.052	1086.1	1398.2	537.9	82.2	1.200	1.111	0.997	-0.222	1.106	-0.001	0.080	4.12	-0.06
23	16.827	3.500	-1.230	1.053	1086.9	1398.4	538.4	82.1	1.260	1.153	0.991	-0.309	1.144	-0.014	0.141	7.03	-0.70
24	17.160	3.500	-1.230	1.049	1083.2	1399.5	537.2	82.2	1.139	1.069	0.983	-0.157	1.067	0.005	0.062	3.31	-0.27
25	17.493	3.500	-1.230	1.050	1084.5	1397.8	537.0	82.3	1.143	1.071	0.995	-0.147	1.069	-0.003	0.065	3.48	-0.18
26	17.826	3.500	-1.230	1.053	1087.4	1399.7	539.0	82.3	1.165	1.084	0.994	-0.174	1.082	-0.000	0.070	3.69	-0.02
27	18.159	3.500	-1.230	1.054	1088.0	1399.6	539.2	82.5	1.168	1.086	0.995	-0.177	1.085	0.005	0.061	3.21	0.28
28	18.492	3.500	-1.230	1.049	1084.2	1400.1	537.7	82.5	1.087	1.029	0.995	-0.065	1.028	0.012	0.039	2.17	0.69
29	18.825	3.500	-1.230	1.052	1086.6	1400.4	538.8	82.7	1.068	1.012	0.997	-0.029	1.012	0.014	0.029	1.62	0.77
30	19.158	3.500	-1.230	1.052	1086.9	1398.7	538.3	82.6	1.068	1.012	1.000	-0.024	1.011	0.012	0.024	1.38	0.69
31	19.491	3.500	-1.230	1.049	1083.6	1401.3	537.9	82.5	1.058	1.007	0.999	-0.016	1.007	0.010	0.026	1.47	0.56

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 403 2.999 2.00 22

SURVEY ALFAS
407 2.01

DATE
2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-2.730	1.053	1087.9	1399.6	539.1	82.7	1.103	1.038	0.999	-0.077	1.037	0.003	0.039	2.14	0.19
2	11.166	2.750	-2.730	1.052	1086.7	1399.2	538.4	82.7	1.060	1.006	0.999	-0.014	1.006	0.011	0.025	1.43	0.60
3	11.832	2.750	-2.730	1.053	1087.8	1399.9	539.1	82.7	1.038	0.988	1.000	0.023	0.988	0.015	0.013	0.77	0.88
4	12.498	2.750	-2.730	1.049	1083.9	1398.7	536.9	82.7	1.034	0.989	1.001	0.024	0.989	0.015	0.005	0.29	0.85
5	13.164	2.750	-2.730	1.051	1086.3	1401.0	538.9	82.8	1.028	0.982	1.000	0.037	0.982	0.013	-0.002	-0.09	0.78
6	13.830	2.750	-2.730	1.052	1086.4	1400.5	538.7	82.7	0.993	0.954	1.000	0.093	0.953	0.010	-0.010	-0.62	0.63
7	14.496	2.750	-2.730	1.048	1083.0	1400.8	537.3	82.7	1.025	0.983	0.999	0.034	0.982	0.010	-0.011	-0.62	0.58
8	15.162	2.750	-2.730	1.052	1086.3	1401.2	539.0	82.7	1.016	1.019	0.999	-0.039	1.019	0.011	0.000	0.02	0.63
9	15.828	2.750	-2.730	1.054	1088.4	1400.4	539.6	82.7	1.120	1.050	0.999	-0.101	1.050	0.012	0.018	0.98	0.66
10	16.494	2.750	-2.730	1.047	1082.3	1399.3	536.4	82.7	1.110	1.049	0.999	-0.098	1.049	0.005	0.028	1.54	0.28
11	17.160	2.750	-2.730	1.053	1087.7	1400.9	539.4	82.8	1.145	1.070	0.998	-0.142	1.069	0.006	0.038	2.03	0.31
12	17.826	2.750	-2.730	1.051	1086.0	1400.2	538.3	83.0	1.178	1.096	0.997	-0.194	1.094	0.007	0.071	3.70	0.36
13	18.492	2.750	-2.730	1.053	1087.6	1401.2	539.4	83.0	1.169	1.088	0.991	-0.185	1.086	-0.005	0.060	3.14	-0.27
14	19.158	2.750	-2.730	1.052	1087.2	1402.3	539.7	82.9	1.115	1.048	0.995	-0.102	1.047	0.007	0.041	2.26	0.39
15	19.824	2.750	-2.730	1.051	1086.5	1401.8	539.2	83.0	1.039	0.990	0.999	0.018	0.990	0.008	0.024	1.38	0.45

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 404 2.997 2.00 22 408 2.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC AT

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	10.500	2.750	-1.980	1.046	1081.7	1401.6	537.0	82.9	1.114	1.053	0.998	-0.107	1.052	0.006	0.038	2.09	0.34
2	11.166	2.750	-1.980	1.052	1086.8	1401.4	539.2	82.9	1.044	0.994	0.999	0.012	0.993	0.017	0.022	1.27	0.96
3	11.832	2.750	-1.980	1.052	1086.6	1401.4	539.1	83.0	1.034	0.986	1.000	0.038	0.986	0.021	0.009	0.53	1.23
4	12.496	2.750	-1.980	1.053	1087.7	1401.6	539.6	83.0	1.028	0.981	1.000	0.038	0.981	0.020	0.000	0.03	1.15
5	13.164	2.750	-1.980	1.047	1083.0	1401.5	537.4	83.1	1.011	0.972	1.000	0.056	0.972	0.015	-0.007	-0.42	0.83
6	13.830	2.750	-1.980	1.051	1086.0	1402.8	539.2	83.2	0.971	0.936	1.000	0.127	0.936	0.009	-0.020	-1.23	0.55
7	14.496	2.750	-1.980	1.052	1086.8	1401.4	539.1	83.1	1.042	0.992	1.001	0.016	0.992	0.009	-0.019	-1.09	0.53
8	15.162	2.750	-1.980	1.048	1083.7	1402.0	537.9	83.2	1.103	1.043	0.999	-0.086	1.043	0.012	0.003	0.18	0.69
9	15.828	2.750	-1.980	1.049	1084.6	1402.9	538.7	83.1	1.139	1.069	0.998	-0.139	1.069	0.013	0.024	1.30	0.70
10	16.494	2.750	-1.980	1.053	1088.3	1403.0	540.2	83.4	1.130	1.058	0.997	-0.119	1.058	0.007	0.027	1.44	0.38
11	17.160	2.750	-1.980	1.049	1084.5	1402.8	538.5	83.3	1.182	1.101	0.997	-0.203	1.099	0.013	0.070	3.63	0.68
12	17.826	2.750	-1.980	1.048	1083.7	1403.2	538.3	83.3	1.168	1.091	0.991	-0.150	1.089	-0.003	0.069	3.61	-0.16
13	18.492	2.750	-1.980	1.051	1086.7	1402.5	539.4	83.3	1.150	1.075	0.995	-0.155	1.074	-0.000	0.057	3.04	-0.02
14	19.158	2.750	-1.980	1.048	1084.2	1401.9	538.0	83.3	1.039	0.990	0.998	0.011	0.992	0.011	0.026	1.51	0.66
15	19.824	2.750	-1.980	1.053	1088.4	1402.7	540.1	83.4	1.039	0.989	0.999	0.020	0.989	0.007	0.021	1.21	0.42

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG SURVEY ALFAS

TC-532 405 2.999 2.00 22 409 2.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	1.050	1085.4	1403.0	539.0	83.4	1.087	1.029	0.998	-0.059	1.028	0.011	0.037	2.08	0.63
2	11.166	2.750	-1.230	1.052	1087.6	1401.6	539.4	83.3	1.029	0.981	0.999	0.036	0.981	0.026	0.023	1.32	1.51
3	11.832	2.750	-1.230	1.049	1085.2	1401.9	538.5	83.3	1.005	0.965	0.999	0.070	0.964	0.032	0.002	0.14	1.87
4	12.498	2.750	-1.230	1.052	1087.5	1401.2	539.2	83.3	1.005	0.963	0.999	0.074	0.962	0.026	-0.012	-0.71	1.57
7	13.164	2.750	-1.230	1.052	1087.0	1401.8	539.3	83.2	1.014	0.970	1.000	0.059	0.970	0.017	-0.017	-1.02	0.98
8	13.830	2.750	-1.230	1.048	1083.8	1403.2	538.4	83.3	0.932	0.907	0.999	0.186	0.906	-0.005	-0.037	-2.35	-0.30
10	14.496	2.750	-1.230	1.051	1086.2	1400.2	538.2	83.4	1.055	1.004	1.000	-0.007	1.003	0.003	-0.034	-1.97	0.16
11	15.162	2.750	-1.230	1.053	1088.6	1401.8	539.9	83.5	1.134	1.062	0.999	-0.124	1.062	0.011	0.004	0.19	0.60
12	15.828	2.750	-1.230	1.049	1085.2	1403.2	538.9	83.6	1.108	1.045	0.997	-0.094	1.045	0.005	0.006	0.34	0.27
13	16.494	2.750	-1.230	1.054	1089.5	1404.9	541.4	83.5	1.184	1.097	0.996	-0.197	1.096	0.022	0.052	2.73	1.14
14	17.160	2.750	-1.230	1.049	1085.3	1404.4	539.3	83.8	1.243	1.144	0.987	-0.296	1.138	0.036	0.107	5.36	1.82
15	17.826	2.750	-1.230	1.052	1087.6	1402.7	539.6	83.9	1.170	1.089	0.996	-0.182	1.087	0.001	0.066	3.47	0.05
16	18.492	2.750	-1.230	1.049	1085.0	1403.1	538.7	83.5	1.055	1.005	0.995	-0.016	1.004	0.009	0.034	1.96	0.51
19	19.158	2.750	-1.230	1.052	1087.9	1402.9	539.9	83.6	1.068	1.012	0.999	-0.025	1.012	0.010	0.024	1.34	0.57
20	19.824	2.750	-1.230	1.049	1085.0	1402.8	538.6	83.6	1.051	1.002	0.999	-0.005	1.002	0.006	0.025	1.41	0.37

DATE 8-MAR-78 PROJECT NO P41C-N0C

AEO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALFA CONFIG

TC-532 406 2.997 2.00 22

SURVEY ALFAS

410 2.01

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-2.730	1.051	1086.5	1402.4	539.2	83.7	1.106	1.042	0.999	-0.086	1.042	-0.005	0.039	2.14	-0.26
2	11.833	-2.750	-2.730	1.051	1087.1	1405.1	540.3	83.9	1.035	0.988	0.999	0.024	0.987	-0.015	0.012	0.71	-0.88
4	13.166	-2.750	-2.730	1.053	1088.0	1403.2	540.2	83.4	1.026	0.979	1.000	0.042	0.979	-0.014	-0.002	-0.13	-0.79
5	14.459	-2.750	-2.730	1.054	1089.1	1404.5	541.0	83.7	1.028	0.980	0.999	0.038	0.980	-0.010	-0.012	-0.69	-0.56
6	15.832	-2.750	-2.730	1.054	1089.1	1404.2	541.0	83.6	1.118	1.049	0.999	-0.098	1.049	-0.013	0.017	0.95	-0.71
7	17.165	-2.750	-2.730	1.052	1087.8	1403.3	539.9	83.8	1.150	1.075	0.999	-0.150	1.074	-0.006	0.039	2.07	-0.34
8	18.498	-2.750	-2.730	1.049	1085.7	1403.6	539.0	84.0	1.153	1.079	0.991	-0.167	1.077	0.004	0.062	3.29	0.19
9	19.831	-2.750	-2.730	1.047	1083.9	1404.0	538.3	84.1	1.034	0.950	0.999	0.019	0.990	-0.006	0.022	1.30	-0.33

DATE 8-MAR-78 PROJECT NO P41C-N0C

ASO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 407 3.000 2.00

CONFIG 22

SURVEY 411

ALFAS 2.01

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-1.230	1.050	1086.1	1405.6	540.0	84.0	1.083	1.026	0.998	-0.054	1.025	-0.013	0.037	2.06	-0.72
2	11.933	-2.750	-1.230	1.052	1087.5	1402.3	539.5	83.7	0.987	0.949	1.001	0.104	0.948	-0.031	0.002	0.14	-1.86
3	13.166	-2.750	-1.230	1.050	1085.7	1403.8	539.3	83.7	1.005	0.965	1.000	0.071	0.964	-0.016	-0.018	-1.04	-0.95
4	14.499	-2.750	-1.230	1.049	1085.1	1403.6	538.9	83.8	1.050	1.001	0.999	-0.002	1.000	0.001	-0.032	-1.83	0.06
5	15.832	-2.750	-1.230	1.048	1084.8	1403.9	538.8	83.9	1.113	1.050	0.996	-0.104	1.050	-0.004	0.009	0.50	-0.23
6	17.165	-2.750	-1.230	1.053	1089.0	1400.5	539.4	83.8	1.272	1.160	0.988	-0.325	1.153	-0.064	0.115	5.72	-3.19
7	18.498	-2.750	-1.230	1.047	1083.4	1402.3	537.6	83.9	1.051	1.003	0.997	-0.010	1.003	-0.009	0.033	1.90	-0.51
8	19.831	-2.750	-1.230	1.050	1086.7	1403.9	539.6	84.1	1.054	1.003	0.999	-0.008	1.003	-0.004	0.021	1.21	-0.22

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 412 2.996 5.00 22 401 5.00

AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

DATE
2-20-78

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AWL	SWL
6	10.500	4.250	-2.730	1.046	1083.1	1405.1	538.4	84.1	1.123	1.059	0.996	-0.123	1.055	0.004	0.095	5.17	0.23
8	11.166	4.250	-2.730	1.049	1085.3	1404.1	539.0	84.2	1.095	1.036	0.998	-0.075	1.032	0.012	0.087	4.83	0.65
9	11.832	4.250	-2.730	1.052	1088.2	1402.9	539.7	84.4	1.006	0.964	0.999	0.071	0.961	0.028	0.071	4.24	1.67
10	12.498	4.250	-2.730	1.054	1090.0	1403.7	540.9	84.2	0.990	0.950	1.000	0.101	0.947	0.035	0.061	3.69	2.14
11	13.164	4.250	-2.730	1.053	1089.0	1403.1	540.2	84.3	0.969	0.933	1.000	0.134	0.931	0.040	0.049	2.99	2.48
15	13.830	4.250	-2.730	1.048	1085.3	1405.5	539.4	84.5	0.955	0.925	1.000	0.149	0.924	0.043	0.036	2.20	2.64
16	14.496	4.250	-2.730	1.052	1088.5	1406.5	541.2	84.4	0.978	0.941	1.000	0.118	0.940	0.042	0.030	1.83	2.54
17	15.162	4.250	-2.730	1.053	1089.4	1404.9	541.1	84.2	1.026	0.979	1.000	0.042	0.977	0.035	0.033	1.91	2.08
18	15.828	4.250	-2.730	1.049	1086.3	1407.2	540.5	84.4	1.007	0.967	0.999	0.065	0.966	0.028	0.036	2.12	1.67
20	16.494	4.250	-2.730	1.050	1086.3	1407.3	540.6	84.4	1.041	0.993	0.999	0.012	0.992	0.023	0.044	2.56	1.33
22	17.160	4.250	-2.730	1.049	1086.1	1406.2	539.9	84.6	1.095	1.036	1.000	-0.071	1.034	0.015	0.065	3.57	0.83
23	17.826	4.250	-2.730	1.054	1090.3	1407.1	542.1	84.7	1.141	1.066	0.997	-0.134	1.062	0.009	0.085	4.57	0.47
24	18.492	4.250	-2.730	1.050	1087.4	1404.7	539.9	84.8	1.120	1.054	0.999	-0.108	1.050	0.022	0.085	4.62	1.18
25	19.158	4.250	-2.730	1.052	1088.4	1406.1	540.8	84.8	1.138	1.066	0.997	-0.134	1.061	0.029	0.092	4.94	1.58
26	19.824	4.250	-2.730	1.052	1088.5	1406.2	541.0	84.6	1.063	1.008	0.998	-0.019	1.006	0.031	0.065	3.72	1.75

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 413 2.994 5.00 22

DATE 2-20-78

SURVEY ALFAS 402 5.00

AEDC PROPULSION WIND TUNNEL TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AL	SWL
1	10.500	4.250	-1.980	1.051	1087.5	1404.2	539.9	84.5	1.119	1.052	0.998	-0.106	1.048	0.003	0.097	5.29	0.19
2	11.166	4.250	-1.980	1.054	1090.1	1405.9	541.7	84.5	1.042	0.991	0.997	0.015	0.987	0.021	0.084	4.87	1.21
3	11.832	4.250	-1.980	1.048	1085.7	1405.1	539.3	84.7	0.993	0.956	0.998	0.085	0.953	0.035	0.073	4.35	2.08
4	12.498	4.250	-1.980	1.052	1088.5	1406.4	541.1	84.6	0.971	0.935	0.998	0.127	0.932	0.045	0.061	3.75	2.78
5	13.164	4.250	-1.980	1.054	1090.0	1406.1	541.6	84.6	0.943	0.912	1.000	0.176	0.909	0.053	0.044	2.74	3.34
6	13.830	4.250	-1.980	1.047	1084.6	1405.9	539.2	84.5	0.930	0.905	0.999	0.189	0.903	0.056	0.025	1.58	3.54
7	14.496	4.250	-1.980	1.052	1088.7	1407.0	541.4	84.6	0.974	0.938	0.998	0.122	0.936	0.051	0.020	1.25	3.11
8	15.162	4.250	-1.980	1.054	1090.5	1406.7	542.1	84.7	1.031	0.982	0.999	0.035	0.981	0.039	0.026	1.52	2.29
9	15.828	4.250	-1.980	1.048	1085.1	1405.4	539.2	84.7	1.007	0.968	0.999	0.063	0.967	0.030	0.030	1.76	1.78
10	16.494	4.250	-1.980	1.052	1088.6	1406.1	541.0	84.7	1.077	1.019	0.999	-0.039	1.018	0.018	0.046	2.61	1.01
11	17.160	4.250	-1.980	1.049	1085.6	1406.2	539.7	84.5	1.138	1.068	0.998	-0.137	1.065	0.004	0.082	4.39	0.24
12	17.826	4.250	-1.980	1.050	1087.3	1405.6	540.2	84.7	1.099	1.038	0.995	-0.081	1.035	0.018	0.078	4.29	1.02
14	18.492	4.250	-1.980	1.050	1087.0	1405.5	540.1	84.6	1.136	1.066	0.997	-0.134	1.061	0.027	0.090	4.87	1.56
15	19.158	4.250	-1.980	1.049	1086.2	1405.4	539.7	84.7	1.053	1.003	0.996	-0.011	1.000	0.036	0.063	3.61	2.06
17	19.824	4.250	-1.980	1.054	1090.6	1406.3	541.8	85.0	1.063	1.007	0.999	-0.016	1.005	0.033	0.058	3.30	1.37

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AERO DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

CONFIC 22

SURVEY ALFAS

TC-532 414 3.000 5.00 5.00

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 41

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	4.250	-1.230	1.053	1089.5	1406.3	541.5	84.5	1.116	1.048	0.997	-0.059	1.044	0.004	0.097	5.28	0.20
2	11.166	4.250	-1.230	1.050	1086.7	1406.1	540.2	84.6	1.032	0.986	0.998	0.026	0.982	0.025	0.087	5.08	1.49
3	11.832	4.250	-1.230	1.052	1088.9	1406.5	541.4	84.5	0.988	0.949	0.999	0.100	0.945	0.042	0.078	4.73	2.56
4	12.498	4.250	-1.230	1.054	1089.9	1406.5	541.8	84.6	0.943	0.912	0.999	0.175	0.908	0.058	0.061	3.81	3.66
5	13.164	4.250	-1.230	1.048	1085.1	1408.0	540.2	84.6	0.904	0.883	0.998	0.232	0.879	0.074	0.037	2.40	4.81
7	13.830	4.250	-1.230	1.051	1087.7	1407.1	541.1	84.5	0.906	0.883	0.999	0.234	0.879	0.080	0.008	0.53	5.21
8	14.496	4.250	-1.230	1.054	1090.2	1406.0	541.6	84.7	0.976	0.939	1.000	0.122	0.937	0.062	0.005	0.32	3.79
9	15.162	4.250	-1.230	1.048	1085.3	1406.1	539.5	84.7	1.006	0.967	1.000	0.065	0.966	0.040	0.014	0.86	2.34
10	15.828	4.250	-1.230	1.051	1088.0	1407.2	541.1	84.8	1.017	0.973	0.999	0.052	0.973	0.028	0.021	1.24	1.65
11	16.494	4.250	-1.230	1.053	1089.5	1407.1	541.8	84.6	1.130	1.058	0.999	-0.117	1.057	0.000	0.058	3.17	0.01
12	17.160	4.250	-1.230	1.052	1089.2	1406.6	541.4	84.8	1.136	1.064	0.994	-0.134	1.061	0.001	0.075	4.05	0.07
14	17.826	4.250	-1.230	1.049	1086.1	1405.1	539.5	84.6	1.122	1.056	0.998	-0.114	1.053	0.021	0.082	4.47	1.17
15	18.492	4.250	-1.230	1.054	1090.7	1405.2	541.5	84.8	1.118	1.049	0.995	-0.104	1.046	0.036	0.075	4.10	1.36
17	19.158	4.250	-1.230	1.049	1086.3	1403.7	539.0	84.7	1.059	1.008	0.999	-0.017	1.005	0.036	0.056	3.21	2.08
18	19.824	4.250	-1.230	1.054	1090.6	1405.8	541.7	84.8	1.063	1.007	0.998	-0.016	1.005	0.034	0.053	2.99	1.93

DATE 8-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 415 2.997 5.00 22 404 5.00

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-2.730	1.052	1089.9	1405.2	540.8	84.6	1.116	1.048	0.997	-0.100	1.044	0.006	0.094	5.16	0.34
2	10.633	3.500	-2.730	1.052	1089.2	1404.7	540.4	84.5	1.099	1.037	0.998	-0.075	1.032	0.010	0.092	5.12	0.57
3	11.166	3.500	-2.730	1.051	1087.9	1404.0	539.9	84.5	1.050	0.999	0.999	-0.000	0.996	0.018	0.079	4.54	1.05
4	11.499	3.500	-2.730	1.054	1090.4	1407.6	542.4	84.6	1.006	0.962	0.997	0.071	0.959	0.025	0.071	4.25	1.48
5	11.832	3.500	-2.730	1.049	1085.6	1408.4	540.6	84.5	0.996	0.958	0.998	0.081	0.956	0.029	0.062	3.72	1.72
6	12.165	3.500	-2.730	1.051	1087.9	1406.8	540.9	84.7	0.990	0.952	0.999	0.095	0.949	0.032	0.057	3.46	1.92
7	12.498	3.500	-2.730	1.051	1088.3	1405.7	540.7	84.8	0.980	0.943	0.999	0.113	0.941	0.034	0.052	3.14	2.07
8	12.831	3.500	-2.730	1.053	1089.7	1407.3	541.9	84.7	0.971	0.935	0.999	0.129	0.933	0.035	0.045	2.78	2.16
9	13.164	3.500	-2.730	1.053	1089.5	1407.0	541.7	84.7	0.963	0.929	0.999	0.142	0.927	0.036	0.039	2.38	2.22
10	13.497	3.500	-2.730	1.047	1084.8	1406.8	539.5	84.7	0.948	0.921	0.999	0.158	0.919	0.035	0.031	1.96	2.20
11	13.830	3.500	-2.730	1.047	1084.2	1405.5	538.8	84.7	0.947	0.920	1.000	0.160	0.919	0.035	0.025	1.59	2.19
12	14.163	3.500	-2.730	1.050	1086.7	1405.4	539.9	84.6	0.957	0.926	1.000	0.149	0.925	0.035	0.022	1.34	2.18
13	14.496	3.500	-2.730	1.051	1087.8	1405.3	540.4	84.5	0.977	0.941	1.000	0.118	0.940	0.034	0.021	1.31	2.07
14	14.829	3.500	-2.730	1.053	1089.2	1405.4	541.1	84.5	1.006	0.963	0.999	0.072	0.963	0.032	0.024	1.43	1.93
17	15.162	3.500	-2.730	1.053	1089.8	1407.6	542.0	84.8	1.031	0.983	0.998	0.032	0.982	0.029	0.027	1.59	1.69
19	15.495	3.500	-2.730	1.054	1090.6	1406.5	542.0	84.8	1.034	0.984	0.998	0.029	0.983	0.026	0.030	1.74	1.53
20	15.828	3.500	-2.730	1.046	1083.6	1405.9	538.7	84.7	1.004	0.967	1.000	0.066	0.966	0.024	0.031	1.86	1.42
21	16.161	3.500	-2.730	1.051	1084.2	1405.5	540.6	84.7	1.032	0.984	0.999	0.029	0.984	0.020	0.036	2.10	1.17
22	16.494	3.500	-2.730	1.054	1090.8	1405.7	541.8	84.7	1.054	1.000	0.999	-0.001	0.999	0.017	0.042	2.42	0.99
23	16.827	3.500	-2.730	1.054	1090.8	1405.5	541.7	84.8	1.081	1.021	0.999	-0.042	1.019	0.017	0.050	2.83	0.93
24	17.160	3.500	-2.730	1.049	1086.3	1406.8	540.2	84.7	1.097	1.037	0.999	-0.076	1.035	0.017	0.068	3.74	0.96
25	17.493	3.500	-2.730	1.051	1084.2	1404.1	540.0	84.7	1.131	1.061	0.999	-0.122	1.057	0.015	0.091	4.39	0.81
26	17.826	3.500	-2.730	1.055	1090.9	1406.7	542.2	84.7	1.137	1.063	0.996	-0.129	1.060	0.013	0.083	4.46	0.69
27	18.159	3.500	-2.730	1.048	1085.6	1406.3	539.7	84.7	1.097	1.037	0.997	-0.078	1.034	0.017	0.078	4.34	0.93
28	18.492	3.500	-2.730	1.053	1089.6	1407.4	541.8	84.9	1.115	1.048	0.998	-0.097	1.045	0.018	0.080	4.40	1.00
29	18.825	3.500	-2.730	1.055	1091.3	1408.0	542.8	84.9	1.127	1.055	0.997	-0.112	1.051	0.021	0.085	4.63	1.12
30	19.158	3.500	-2.730	1.051	1088.0	1408.4	541.4	85.1	1.102	1.040	0.997	-0.083	1.037	0.027	0.074	4.09	1.49
31	19.491	3.500	-2.730	1.053	1090.0	1407.5	542.0	85.1	1.088	1.027	0.997	-0.057	1.024	0.028	0.071	3.97	1.55

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 418 2.998 5.00

DATE 2-20-78

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	3.500	-1.980	1.052	1088.8	1406.0	541.0	84.7	1.111	1.045	0.998	-0.092	1.041	0.008	0.095	5.22	0.45
2	10.533	3.500	-1.980	1.042	1086.3	1406.6	540.2	84.7	1.093	1.034	0.997	-0.071	1.029	0.016	0.091	5.06	0.91
3	11.166	3.500	-1.980	1.051	1088.0	1408.7	541.8	84.5	1.032	0.985	0.996	0.025	0.982	0.026	0.079	4.60	1.52
4	11.499	3.500	-1.980	1.053	1089.1	1407.7	541.9	84.6	1.000	0.959	0.998	0.080	0.955	0.033	0.072	4.31	1.58
5	11.832	3.500	-1.980	1.053	1089.2	1405.5	541.0	84.6	0.981	0.943	0.999	0.113	0.940	0.039	0.065	3.97	2.35
6	12.165	3.500	-1.980	1.051	1087.7	1404.9	540.1	84.7	0.968	0.934	1.000	0.132	0.932	0.043	0.057	3.47	2.63
7	12.498	3.500	-1.980	1.054	1090.0	1407.9	542.3	84.6	0.957	0.923	0.998	0.151	0.920	0.045	0.049	3.04	2.81
8	12.831	3.500	-1.980	1.050	1086.9	1405.7	540.1	84.6	0.946	0.917	0.999	0.165	0.915	0.046	0.040	2.49	2.91
9	13.164	3.500	-1.980	1.050	1086.7	1406.8	540.4	84.8	0.933	0.907	0.999	0.185	0.905	0.046	0.029	1.91	2.68
10	13.497	3.500	-1.980	1.050	1086.9	1405.2	539.8	84.8	0.927	0.901	1.000	0.198	0.900	0.045	0.019	1.22	2.85
11	13.830	3.500	-1.980	1.051	1088.3	1407.1	541.2	84.7	0.928	0.901	0.999	0.197	0.900	0.044	0.010	0.52	2.79
12	14.163	3.500	-1.980	1.052	1089.0	1404.6	540.5	84.8	0.945	0.914	1.001	0.173	0.913	0.043	0.006	0.37	2.72
13	14.496	3.500	-1.980	1.053	1089.4	1406.7	541.5	84.8	0.981	0.943	1.000	0.114	0.942	0.041	0.010	0.58	2.49
14	14.829	3.500	-1.980	1.051	1088.3	1405.9	540.8	84.7	1.021	0.976	0.998	0.045	0.976	0.037	0.016	0.35	2.20
15	15.162	3.500	-1.980	1.053	1089.1	1404.3	540.5	84.6	1.032	0.984	1.000	0.032	0.983	0.034	0.021	1.22	1.98
16	15.495	3.500	-1.980	1.054	1089.9	1405.2	541.3	84.5	1.032	0.983	1.000	0.033	0.983	0.029	0.024	1.43	1.71
17	15.828	3.500	-1.980	1.046	1083.9	1405.1	538.5	84.7	1.011	0.972	1.000	0.056	0.971	0.027	0.026	1.54	1.57
18	16.161	3.500	-1.980	1.049	1086.3	1405.7	539.8	84.7	1.041	0.994	1.000	0.012	0.993	0.023	0.035	2.00	1.32
19	16.494	3.500	-1.980	1.052	1088.6	1407.3	541.5	84.7	1.088	1.028	0.999	-0.057	1.026	0.019	0.050	2.79	1.04
20	16.827	3.500	-1.980	1.054	1090.1	1407.3	542.1	84.7	1.127	1.056	0.999	-0.113	1.054	0.018	0.070	3.79	0.95
21	17.160	3.500	-1.980	1.050	1087.4	1405.8	540.3	84.7	1.157	1.081	0.998	-0.162	1.077	0.015	0.092	4.90	0.78
22	17.493	3.500	-1.980	1.050	1087.2	1405.5	540.1	84.7	1.116	1.050	0.996	-0.105	1.048	0.014	0.074	4.02	0.79
23	17.826	3.500	-1.980	1.053	1089.3	1405.3	541.0	84.7	1.106	1.041	0.994	-0.088	1.038	0.014	0.074	4.06	0.77
24	18.159	3.500	-1.980	1.054	1090.6	1405.5	541.6	84.8	1.125	1.054	0.998	-0.110	1.051	0.016	0.079	4.28	0.83
25	18.492	3.500	-1.980	1.051	1088.4	1407.3	541.3	84.8	1.115	1.049	0.998	-0.100	1.046	0.026	0.079	4.31	1.41
26	18.825	3.500	-1.980	1.053	1089.9	1406.0	541.3	85.1	1.097	1.034	0.998	-0.071	1.031	0.032	0.071	3.92	1.75
27	19.158	3.500	-1.980	1.050	1087.2	1406.1	540.3	84.9	1.064	1.011	0.997	-0.025	1.009	0.031	0.061	3.44	1.79
28	19.491	3.500	-1.980	1.052	1089.0	1405.4	540.8	84.9	1.063	1.008	0.999	-0.018	1.006	0.030	0.057	3.27	1.68

DATE 14-MAR-78 PROJECT NO P41C-NOC

APD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 419 2.999 5.00

SURVEY ALFAS
406 5.00

DATE
2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PT/PT	CPL	UL/VM	VL/VM	ML/VM	AAL	SWL
1	10.500	3.500	-1.230	1.052	1088.7	1406.7	541.2	84.7	1.101	1.037	0.998	-0.077	1.033	0.011	0.096	5.30	0.62
3	10.833	3.500	-1.230	1.050	1086.7	1407.7	540.7	84.7	1.056	1.005	0.997	-0.014	1.001	0.023	0.090	5.14	1.33
4	11.166	3.500	-1.230	1.050	1087.1	1406.4	540.3	84.9	1.009	0.968	0.998	0.062	0.964	0.033	0.082	4.86	1.97
5	11.499	3.500	-1.230	1.051	1088.3	1407.2	541.2	84.9	0.981	0.945	0.999	0.109	0.941	0.043	0.074	4.48	2.59
6	11.832	3.500	-1.230	1.053	1089.6	1408.3	542.2	84.9	0.955	0.922	0.999	0.154	0.918	0.054	0.068	4.24	3.39
7	12.165	3.500	-1.230	1.051	1088.1	1407.4	541.2	84.8	0.936	0.907	0.999	0.184	0.904	0.062	0.055	3.50	3.90
8	12.498	3.500	-1.230	1.052	1088.7	1407.0	541.4	84.7	0.922	0.895	0.999	0.209	0.892	0.065	0.042	2.59	4.15
9	12.831	3.500	-1.230	1.054	1090.2	1407.8	542.4	84.7	0.913	0.887	0.999	0.234	0.884	0.064	0.028	1.83	4.11
11	13.164	3.500	-1.230	1.049	1086.2	1405.2	539.5	84.9	0.902	0.881	1.000	0.237	0.879	0.059	0.013	0.84	2.82
12	13.497	3.500	-1.230	1.050	1087.4	1407.1	540.6	84.7	0.883	0.864	0.999	0.271	0.861	0.060	-0.013	-0.85	3.96
13	13.830	3.500	-1.230	1.052	1088.5	1406.2	541.0	84.6	0.896	0.874	0.999	0.251	0.871	0.060	-0.026	-1.59	3.95
14	14.163	3.500	-1.230	1.054	1090.3	1406.8	542.0	84.7	0.939	0.908	0.998	0.181	0.906	0.059	-0.021	-1.31	3.74
15	14.496	3.500	-1.230	1.054	1090.1	1406.7	541.9	84.7	1.018	0.972	0.999	0.053	0.971	0.056	-0.006	-0.35	3.32
16	14.829	3.500	-1.230	1.048	1085.7	1404.8	539.2	84.7	1.038	0.992	0.999	0.015	0.991	0.049	0.007	0.41	2.82
17	15.162	3.500	-1.230	1.051	1087.4	1404.3	539.8	84.6	1.025	0.980	0.999	0.039	0.979	0.043	0.013	0.74	2.54
18	15.495	3.500	-1.230	1.052	1088.6	1405.1	540.2	84.7	1.021	0.976	1.000	0.089	0.975	0.037	0.018	1.07	2.19
19	15.828	3.500	-1.230	1.055	1090.9	1404.7	541.4	84.7	1.028	0.979	0.999	0.041	0.978	0.032	0.022	1.28	1.65
20	16.161	3.500	-1.230	1.048	1085.5	1406.8	539.9	84.7	1.091	1.033	0.998	-0.068	1.032	0.028	0.049	2.70	1.53
21	16.494	3.500	-1.230	1.049	1086.1	1404.7	539.2	84.9	1.157	1.082	0.998	-0.165	1.077	0.020	0.104	5.50	1.05
22	16.827	3.500	-1.230	1.052	1089.1	1407.0	541.5	84.9	1.160	1.081	0.994	-0.149	1.076	0.017	0.105	5.59	0.90
23	17.160	3.500	-1.230	1.055	1091.2	1409.2	543.2	84.9	1.089	1.027	0.987	-0.069	1.024	0.017	0.074	4.15	0.97
24	17.493	3.500	-1.230	1.051	1087.8	1407.5	541.0	84.9	1.098	1.037	0.998	-0.076	1.034	0.020	0.074	4.07	1.10
25	17.826	3.500	-1.230	1.052	1089.2	1405.7	541.0	84.9	1.121	1.052	0.999	-0.106	1.049	0.021	0.077	4.19	1.14
26	18.159	3.500	-1.230	1.055	1091.1	1407.3	542.4	84.9	1.131	1.058	0.997	-0.119	1.055	0.025	0.079	4.30	1.37
27	18.492	3.500	-1.230	1.049	1086.2	1406.6	540.1	84.8	1.087	1.030	0.997	-0.063	1.027	0.036	0.071	3.97	2.02
28	18.825	3.500	-1.230	1.050	1087.3	1405.8	540.2	84.8	1.072	1.017	0.998	-0.037	1.014	0.036	0.062	3.51	2.05
29	19.158	3.500	-1.230	1.053	1089.4	1406.8	541.6	84.8	1.076	1.018	0.999	-0.037	1.016	0.035	0.058	3.25	1.95
30	19.491	3.500	-1.230	1.049	1086.5	1406.1	540.0	84.8	1.065	1.012	1.000	-0.025	1.010	0.033	0.053	2.99	1.85

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 420 2.956 5.00

CONFIG 22 SURVEY 407 ALFAS 5.00

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SAL
1	10.500	2.750	-2.730	1.053	1089.3	1404.9	540.8	84.7	1.110	1.044	0.997	-0.091	1.040	0.010	0.092	5.03	0.54
2	11.166	2.750	-2.730	1.048	1085.2	1405.6	539.3	84.7	1.049	1.001	0.998	-0.005	0.998	0.020	0.072	4.12	1.18
3	11.832	2.750	-2.730	1.050	1087.2	1406.9	540.0	84.8	0.995	0.957	0.999	0.086	0.955	0.028	0.056	3.35	1.67
4	12.498	2.750	-2.730	1.052	1089.2	1407.3	541.7	84.8	0.976	0.939	0.999	0.121	0.938	0.030	0.044	2.68	1.85
5	13.164	2.750	-2.730	1.052	1088.9	1405.0	540.7	84.7	0.961	0.927	1.000	0.147	0.926	0.030	0.032	1.99	1.83
6	13.830	2.750	-2.730	1.047	1084.7	1405.0	538.8	84.7	0.949	0.921	1.000	0.159	0.920	0.026	0.021	1.28	1.64
7	14.496	2.750	-2.730	1.050	1086.6	1405.6	539.9	84.7	0.975	0.941	1.000	0.118	0.941	0.026	0.017	1.04	1.57
8	15.162	2.750	-2.730	1.052	1089.2	1405.5	541.0	84.8	1.034	0.985	1.000	0.030	0.985	0.024	0.024	1.41	1.38
9	15.828	2.750	-2.730	1.050	1087.6	1405.5	540.2	84.9	1.025	0.980	1.000	0.039	0.980	0.020	0.031	1.79	1.14
10	16.494	2.750	-2.730	1.048	1085.7	1407.3	540.0	85.0	1.042	0.996	0.999	0.008	0.995	0.018	0.041	2.35	1.04
11	17.160	2.750	-2.730	1.054	1090.2	1408.4	542.5	84.9	1.108	1.042	0.999	-0.084	1.040	0.017	0.060	3.29	0.94
12	17.826	2.750	-2.730	1.052	1088.9	1409.3	542.1	85.2	1.128	1.058	0.997	-0.119	1.055	0.021	0.063	4.49	1.16
13	18.492	2.750	-2.730	1.049	1086.3	1407.1	540.2	84.9	1.104	1.042	0.999	-0.086	1.039	0.016	0.074	4.08	0.80
14	19.158	2.750	-2.730	1.054	1090.6	1407.5	542.3	85.0	1.099	1.035	0.998	-0.072	1.032	0.022	0.072	4.02	1.25
15	19.824	2.750	-2.730	1.053	1089.7	1409.2	542.5	85.0	1.067	1.011	0.998	-0.025	1.009	0.022	0.059	3.34	1.27

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 421 3.000 5.00 22 408 5.00

DATE 2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SKL
1	10.500	2.750	-1.980	1.052	1089.1	1407.6	541.7	84.9	1.099	1.036	0.997	-0.075	1.032	0.015	0.091	5.05	0.85
2	11.166	2.750	-1.980	1.054	1090.3	1407.3	542.2	84.7	0.995	0.954	0.998	0.089	0.951	0.030	0.070	4.23	1.83
3	11.832	2.750	-1.980	1.050	1087.2	1406.6	540.6	84.7	0.970	0.936	0.999	0.127	0.934	0.038	0.052	3.21	2.33
4	12.498	2.750	-1.980	1.052	1088.5	1405.2	540.6	84.7	0.951	0.919	1.000	0.162	0.918	0.039	0.036	2.24	2.45
5	13.164	2.750	-1.980	1.053	1089.7	1406.2	541.4	85.0	0.940	0.910	1.000	0.179	0.909	0.035	0.021	1.34	2.19
6	13.830	2.750	-1.980	1.049	1086.3	1405.5	539.6	85.0	0.929	0.904	0.999	0.192	0.903	0.027	0.005	0.31	1.74
7	14.496	2.750	-1.980	1.053	1089.9	1407.6	541.8	85.1	0.979	0.942	0.999	0.116	0.941	0.027	0.003	0.20	1.44
8	15.162	2.750	-1.980	1.049	1086.3	1408.4	540.7	85.0	1.025	0.981	0.998	0.035	0.981	0.026	0.017	0.96	1.50
11	15.828	2.750	-1.980	1.049	1086.7	1405.1	539.6	84.9	1.018	0.975	1.000	0.049	0.975	0.021	0.023	1.37	1.24
12	16.494	2.750	-1.980	1.054	1090.4	1405.8	541.5	85.1	1.085	1.025	0.999	-0.051	1.024	0.019	0.044	2.45	1.08
13	17.160	2.750	-1.980	1.049	1086.7	1406.1	539.8	85.3	1.144	1.073	0.993	-0.147	1.069	0.031	0.088	4.68	1.69
15	17.826	2.750	-1.980	1.048	1086.0	1407.0	539.9	85.2	1.084	1.028	0.995	-0.061	1.025	0.017	0.072	3.00	0.94
16	18.492	2.750	-1.980	1.053	1090.2	1407.4	541.9	85.4	1.095	1.032	0.997	-0.068	1.030	0.023	0.070	3.89	1.26
17	19.158	2.750	-1.980	1.053	1090.2	1405.3	541.1	85.2	1.077	1.018	0.998	-0.039	1.016	0.026	0.059	3.34	1.47
19	19.824	2.750	-1.980	1.050	1087.1	1406.7	540.4	85.0	1.044	0.995	0.999	0.008	0.994	0.025	0.050	2.89	1.46

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

AROLD AIR FORCE STATION, TENNESSEE

TEST PART PEX10-b ALPHA

TC-532 422 3.002 5.00 22 409 5.00

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	2.750	-1.230	1.053	1090.0	1408.1	542.3	84.8	1.074	1.016	0.997	-0.035	1.011	0.022	0.093	5.23	1.25
2	11.166	2.750	-1.230	1.053	1089.4	1407.3	541.7	84.8	0.971	0.935	0.998	0.128	0.931	0.044	0.074	4.52	2.69
3	11.832	2.750	-1.230	1.052	1088.7	1406.0	541.0	84.7	0.930	0.902	0.999	0.194	0.900	0.056	0.045	2.87	3.54
4	12.498	2.750	-1.230	1.053	1089.5	1405.2	541.0	84.7	0.920	0.893	1.000	0.214	0.891	0.052	0.021	1.34	3.31
6	13.164	2.750	-1.230	1.048	1085.6	1405.7	539.5	84.7	0.914	0.891	0.999	0.216	0.890	0.038	0.004	0.28	2.45
7	13.830	2.750	-1.230	1.052	1088.6	1405.4	540.6	84.9	0.900	0.877	0.999	0.244	0.877	0.017	-0.022	-1.41	1.08
8	14.496	2.750	-1.230	1.053	1089.9	1406.2	541.6	84.7	0.986	0.947	0.999	0.104	0.947	0.023	-0.023	-1.37	1.37
9	15.162	2.750	-1.230	1.048	1085.7	1404.4	539.0	84.8	1.028	0.984	1.000	0.032	0.983	0.024	-0.001	-0.07	1.40
10	15.828	2.750	-1.230	1.052	1089.0	1403.9	540.2	84.9	1.011	0.968	0.998	0.062	0.968	0.019	0.011	0.67	1.15
14	16.494	2.750	-1.230	1.049	1086.7	1407.6	540.6	84.9	1.141	1.070	0.998	-0.141	1.067	0.040	0.069	3.66	2.12
16	17.160	2.750	-1.230	1.054	1090.7	1408.2	542.7	84.8	1.128	1.056	0.990	-0.123	1.054	0.016	0.069	3.74	0.86
17	17.826	2.750	-1.230	1.050	1087.4	1406.1	540.3	85.0	1.080	1.023	0.997	-0.049	1.021	0.019	0.066	3.72	1.06
18	18.492	2.750	-1.230	1.055	1091.2	1408.3	542.9	84.9	1.067	1.009	0.996	-0.024	1.007	0.027	0.062	3.52	1.55
19	19.158	2.750	-1.230	1.050	1086.8	1406.9	540.4	84.8	1.067	1.014	0.998	-0.029	1.012	0.027	0.053	3.02	1.53
21	19.824	2.750	-1.230	1.049	1086.4	1408.1	540.7	84.9	1.054	1.004	0.998	-0.009	1.002	0.025	0.047	2.71	1.44

DATE 8-MAR-78 PROJECT NO P41C-H0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

IC-532 423 2.995 5.00

SURVEY ALFA 5.00

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	X	Y	Z	M	VM	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UL/VM	VL/VM	WL/VM	AAL	SWL
1	10.500	-2.750	-2.730	1.049	1085.9	1405.9	539.7	84.7	1.113	1.050	0.998	-0.102	1.046	-0.012	0.092	5.01	-0.63
2	11.833	-2.750	-2.730	1.053	1089.5	1405.6	541.0	85.1	0.982	0.944	0.999	0.111	0.942	-0.028	0.056	3.39	-1.70
4	13.166	-2.750	-2.730	1.050	1086.8	1405.9	540.0	84.8	0.953	0.923	0.999	0.154	0.922	-0.028	0.031	1.90	-1.76
5	14.499	-2.750	-2.730	1.054	1090.5	1406.5	541.9	84.8	0.975	0.937	0.999	0.125	0.937	-0.024	0.016	0.99	-1.47
6	15.832	-2.750	-2.730	1.052	1089.2	1405.7	540.9	85.0	1.026	0.979	0.999	0.040	0.979	-0.019	0.030	1.75	-1.12
7	17.165	-2.750	-2.730	1.051	1088.0	1405.3	540.2	85.1	1.099	1.037	0.999	-0.076	1.035	-0.020	0.062	3.42	-1.09
8	18.498	-2.750	-2.730	1.051	1088.5	1405.4	540.5	85.1	1.095	1.034	0.998	-0.070	1.032	-0.017	0.071	3.91	-0.93
9	19.831	-2.750	-2.730	1.050	1087.4	1405.6	540.1	85.1	1.056	1.005	0.999	-0.011	1.003	-0.022	0.055	3.13	-1.26

DATE 9-MAR-78 PROJECT NO P41C-N0C

ASD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMOLO AIR FORCE STATION, TENNESSEE

TEST PART RFX10-6 ALPHA CONFIG

IC-532 667 3.001 0.00 21 1601 SURVEY ALFAS 0.02

DATE 2-21-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	IT	ML	VNL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SKTL
8	-6.000	0.000-14.142	0.927	0.927	977.4	1449.2	500.6	82.0	0.929	1.001	0.999-0.005	1.001	1.001	-0.000	0.000	0.002	0.12-0.02
9	-5.000	0.000-14.142	0.926	0.926	976.0	1450.4	500.3	81.9	0.927	1.001	0.999-0.003	1.001	1.001	-0.000	0.000	0.002	0.10-0.01
10	-4.000	0.000-14.142	0.925	0.925	974.8	1449.1	499.1	81.9	0.924	1.000	0.998-0.001	1.000	1.000	-0.000	0.000	0.002	0.08-0.02
11	-3.000	0.000-14.142	0.922	0.922	972.0	1449.3	497.6	81.9	0.921	0.999	0.999	0.000	0.999	-0.000	0.000	0.001	0.06-0.01
15	-2.000	0.000-14.142	0.922	0.922	972.5	1448.6	497.6	81.9	0.920	0.998	0.999	0.002	0.998	-0.000	0.000	0.000	0.02-0.02
18	-1.000	0.000-14.142	0.923	0.923	973.1	1450.0	498.5	81.8	0.923	1.000	0.999-0.002	1.000	1.000	-0.000	-0.001	-0.01	-0.01-0.01
17	0.000	0.000-14.142	0.922	0.922	971.9	1451.0	498.1	81.9	0.922	1.001	0.999-0.004	1.001	1.001	-0.000	-0.002	-0.02	-0.02-0.02
19	1.000	0.000-14.142	0.922	0.922	972.5	1449.9	498.1	81.9	0.922	1.000	0.999-0.003	1.000	1.000	-0.000	-0.003	-0.03	-0.03-0.03
21	2.000	0.000-14.142	0.924	0.924	974.0	1450.5	498.9	81.8	0.924	1.003	0.998-0.003	1.003	1.003	-0.001	-0.003	-0.03	-0.03-0.04
22	3.000	0.000-14.142	0.925	0.925	974.8	1450.5	499.6	81.9	0.928	1.003	0.999-0.009	1.003	1.003	-0.001	-0.004	-0.04	-0.04-0.03
23	4.000	0.000-14.142	0.922	0.922	972.1	1449.9	497.8	81.9	0.928	1.006	0.999-0.014	1.006	1.006	-0.001	-0.004	-0.04	-0.04-0.03
24	5.000	0.000-14.142	0.923	0.923	973.3	1449.3	498.4	81.8	0.929	1.006	0.999-0.013	1.006	1.006	-0.001	-0.004	-0.04	-0.04-0.03
25	6.000	0.000-14.142	0.926	0.926	975.5	1451.3	500.4	81.8	0.936	1.009	0.999-0.021	1.009	1.009	-0.001	-0.004	-0.04	-0.04-0.03
26	7.000	0.000-14.142	0.922	0.922	972.7	1448.4	497.7	81.9	0.933	1.010	0.999-0.020	1.010	1.010	-0.000	-0.004	-0.04	-0.04-0.02
27	8.000	0.000-14.142	0.921	0.921	971.4	1450.1	497.5	81.9	0.930	1.009	0.999-0.019	1.009	1.009	-0.001	-0.003	-0.03	-0.03-0.03
28	9.000	0.000-14.142	0.924	0.924	974.1	1449.7	498.9	82.0	0.934	1.010	0.999-0.021	1.010	1.010	-0.000	-0.003	-0.03	-0.03-0.02
29	10.000	0.000-14.142	0.923	0.923	973.3	1447.9	497.9	81.9	0.930	1.006	0.999-0.014	1.006	1.006	-0.000	-0.003	-0.03	-0.03-0.01
30	11.000	0.000-14.142	0.926	0.926	976.2	1449.1	500.0	81.9	0.932	1.005	0.999-0.011	1.005	1.005	-0.001	-0.002	-0.02	-0.02-0.04
31	12.000	0.000-14.142	0.929	0.929	978.8	1451.3	502.2	82.0	0.936	1.008	0.999-0.014	1.008	1.008	-0.000	-0.002	-0.02	-0.02-0.03
34	13.000	0.000-14.142	0.928	0.928	977.8	1451.0	501.6	81.8	0.932	1.009	0.998-0.021	1.009	1.009	-0.000	-0.002	-0.02	-0.02-0.01
35	14.000	0.000-14.142	0.924	0.924	974.5	1449.8	499.2	81.9	0.932	1.007	0.999-0.015	1.007	1.007	-0.000	-0.001	-0.01	-0.01-0.01
37	15.000	0.000-14.142	0.927	0.927	977.0	1451.2	501.2	81.8	0.939	1.011	0.998-0.024	1.011	1.011	0.000	0.000	0.000	0.000-0.01
39	16.000	0.000-14.142	0.924	0.924	973.8	1449.4	498.6	81.9	0.932	1.008	0.999-0.018	1.008	1.008	0.000	0.001	0.001	0.001-0.01
40	17.000	0.000-14.142	0.927	0.927	976.9	1448.3	500.2	81.7	0.938	1.010	0.999-0.021	1.010	1.010	-0.000	0.002	0.02	0.02-0.01
42	18.000	0.000-14.142	0.928	0.928	977.3	1446.8	499.9	81.7	0.934	1.006	0.999-0.013	1.006	1.006	-0.000	0.003	0.03	0.03-0.01
45	19.000	0.000-14.142	0.928	0.928	978.0	1449.1	501.1	81.8	0.934	1.005	0.998-0.013	1.005	1.005	0.000	0.004	0.04	0.04-0.00
46	20.000	0.000-14.142	0.928	0.928	978.0	1448.5	500.8	81.9	0.933	1.004	0.999-0.010	1.004	1.004	-0.000	0.003	0.03	0.03-0.01
47	21.000	0.000-14.142	0.920	0.920	970.6	1449.2	496.8	81.8	0.926	1.005	0.999-0.012	1.005	1.005	-0.000	0.003	0.03	0.03-0.01
48	22.000	0.000-14.142	0.926	0.926	975.9	1449.7	500.0	81.9	0.930	1.004	0.999-0.010	1.004	1.004	-0.001	0.004	0.04	0.04-0.03
49	23.000	0.000-14.142	0.926	0.926	976.1	1449.3	500.0	81.8	0.932	1.006	0.999-0.013	1.006	1.006	-0.001	0.004	0.04	0.04-0.04
50	24.000	0.000-14.142	0.928	0.928	977.9	1450.3	501.4	81.8	0.935	1.006	0.998-0.014	1.006	1.006	-0.001	0.004	0.04	0.04-0.05

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

TEST PART RX10-6 ALFA CONFIG 21

TC-532 668 2.996 0.00

SURVEY ALFAS

1602 0.02

DATE

2-21-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
6	-6.000	14.142	0.000	0.923	973.0	1448.6	498.0	81.8	0.918	0.996	0.999	0.006	0.996	0.003	0.000	0.02	0.19
7	-5.000	14.142	0.000	0.925	975.2	1448.5	499.2	81.9	0.922	0.997	1.000	0.006	0.997	0.003	0.000	0.02	0.17
8	-4.000	14.142	0.000	0.928	977.6	1451.4	501.5	82.0	0.927	0.999	0.999	-0.000	0.999	0.003	-0.000	-0.02	0.19
9	-3.000	14.142	0.000	0.926	976.2	1449.3	500.0	82.0	0.924	0.998	0.999	0.003	0.999	0.004	0.000	0.00	0.22
10	-2.000	14.142	0.000	0.925	974.7	1450.4	499.6	81.9	0.924	0.999	1.000	0.001	0.999	0.004	-0.000	-0.02	0.25
11	-1.000	14.142	0.000	0.924	974.6	1450.9	499.6	82.0	0.923	0.998	0.999	0.001	0.998	0.005	-0.000	-0.03	0.29
12	0.000	14.142	0.000	0.923	972.9	1448.8	498.0	81.9	0.921	0.999	1.000	0.002	0.999	0.006	-0.001	-0.03	0.32
13	1.000	14.142	0.000	0.923	973.1	1451.5	498.9	82.0	0.923	1.000	0.999	-0.002	1.000	0.006	-0.001	-0.03	0.37
14	2.000	14.142	0.000	0.923	973.0	1451.3	498.8	82.0	0.924	1.001	0.999	-0.004	1.001	0.007	-0.001	-0.03	0.41
15	3.000	14.142	0.000	0.922	972.3	1448.8	497.6	82.0	0.923	1.001	0.999	-0.002	1.001	0.008	-0.001	-0.03	0.43
16	4.000	14.142	0.000	0.922	972.5	1450.4	498.2	82.0	0.926	1.004	0.999	-0.008	1.004	0.008	-0.001	-0.04	0.45
17	5.000	14.142	0.000	0.923	973.3	1450.3	498.0	82.1	0.927	1.004	0.999	-0.010	1.004	0.008	-0.001	-0.06	0.44
18	6.000	14.142	0.000	0.923	973.3	1448.7	498.1	82.0	0.928	1.005	1.000	-0.009	1.005	0.008	-0.001	-0.04	0.43
19	7.000	14.142	0.000	0.925	974.9	1450.1	499.5	82.0	0.930	1.005	0.999	-0.011	1.005	0.007	-0.001	-0.05	0.39
20	8.000	14.142	0.000	0.926	976.0	1451.0	500.5	82.0	0.932	1.006	0.999	-0.013	1.006	0.006	-0.001	-0.05	0.37
21	9.000	14.142	0.000	0.926	975.9	1449.4	499.9	82.0	0.932	1.005	0.999	-0.012	1.005	0.006	-0.001	-0.08	0.32
22	10.000	14.142	0.000	0.926	975.8	1450.6	500.3	82.0	0.931	1.005	0.999	-0.011	1.005	0.005	-0.001	-0.08	0.31
23	11.000	14.142	0.000	0.926	976.3	1448.9	499.9	82.0	0.931	1.004	1.000	-0.009	1.004	0.005	-0.002	-0.10	0.31
24	12.000	14.142	0.000	0.925	974.9	1449.5	499.3	82.0	0.929	1.004	1.000	-0.008	1.004	0.005	-0.002	-0.10	0.30
25	13.000	14.142	0.000	0.928	977.6	1450.3	501.2	82.0	0.932	1.004	0.999	-0.010	1.004	0.005	-0.002	-0.10	0.30
26	14.000	14.142	0.000	0.923	973.1	1449.6	498.3	82.0	0.931	1.007	0.999	-0.016	1.007	0.005	-0.002	-0.11	0.27
27	15.000	14.142	0.000	0.926	975.8	1449.3	499.8	81.9	0.933	1.007	0.999	-0.015	1.007	0.004	-0.002	-0.13	0.23
28	16.000	14.142	0.000	0.923	973.5	1450.0	498.7	82.0	0.934	1.010	0.999	-0.020	1.010	0.002	-0.003	-0.15	0.13
29	17.000	14.142	0.000	0.927	976.8	1450.2	500.7	81.9	0.936	1.009	0.999	-0.019	1.009	0.001	-0.002	-0.13	0.04
30	18.000	14.142	0.000	0.926	976.1	1450.7	500.4	82.0	0.938	1.011	0.999	-0.023	1.011	0.000	-0.003	-0.15	0.03
31	19.000	14.142	0.000	0.928	978.0	1449.2	501.0	82.0	0.932	1.003	0.999	-0.008	1.003	0.001	-0.001	-0.17	0.05
32	20.000	14.142	0.000	0.927	977.1	1450.2	500.9	82.0	0.933	1.006	0.999	-0.013	1.006	0.000	-0.003	-0.18	0.01
33	21.000	14.142	0.000	0.928	977.8	1449.2	500.9	82.0	0.929	1.001	0.999	-0.003	1.001	0.000	-0.003	-0.16	0.02
34	22.000	14.142	0.000	0.929	979.1	1449.6	501.9	81.9	0.933	1.004	0.999	-0.008	1.004	0.000	-0.003	-0.17	0.02
35	23.000	14.142	0.000	0.925	974.1	1450.8	499.8	81.9	0.933	1.007	1.000	-0.015	1.007	0.000	-0.004	-0.20	0.02
44	24.000	14.142	0.000	0.923	973.0	1449.4	498.1	82.0	0.925	1.003	0.999	-0.007	1.003	0.001	-0.003	-0.19	0.05

DATE 9-MAR-78 PROJECT NO P41C-W0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 670 2.996 2.00

CONFIG 21

SURVEY ALFAS

VM 1601

PT 0.02

DATE

2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	ARTL	SATL
12	-6.000	0.000-14.142	0.922	0.922	972.8	1449.7	498.1	82.1	0.923	1.000	0.999	-0.003	1.000	-0.000	0.002	0.11	-0.01
13	-5.000	0.000-14.142	0.922	0.922	972.3	1450.7	498.1	82.1	0.922	1.000	0.999	-0.003	1.000	-0.000	0.002	0.10	-0.01
14	-4.000	0.000-14.142	0.920	0.920	970.9	1450.9	497.3	82.1	0.921	1.001	0.999	-0.004	1.001	-0.000	0.001	0.08	-0.00
16	-3.000	0.000-14.142	0.922	0.922	972.1	1449.4	497.6	82.0	0.919	0.998	0.999	-0.003	1.001	-0.000	0.001	0.05	-0.03
17	-2.000	0.000-14.142	0.920	0.920	970.8	1450.3	497.1	82.1	0.921	1.001	0.999	-0.002	1.001	-0.000	0.001	0.05	-0.01
18	-1.000	0.000-14.142	0.926	0.926	975.8	1450.3	500.1	82.0	0.925	0.999	0.999	-0.001	0.999	-0.000	0.001	0.04	-0.03
19	0.000	0.000-14.142	0.923	0.923	973.3	1450.5	498.7	82.0	0.924	1.001	0.999	-0.003	1.001	-0.000	0.001	0.04	-0.03
21	1.000	0.000-14.142	0.923	0.923	973.5	1450.6	498.8	82.0	0.922	0.999	0.999	-0.001	0.999	-0.000	0.001	0.03	-0.03
22	2.000	0.000-14.142	0.926	0.926	976.1	1450.4	500.2	82.1	0.929	1.003	0.999	-0.007	1.003	-0.001	0.003	0.18	-0.03
23	3.000	0.000-14.142	0.922	0.922	972.4	1449.1	497.7	82.0	0.926	1.003	0.999	-0.008	1.003	-0.000	0.004	0.21	-0.02
24	4.000	0.000-14.142	0.929	0.929	978.0	1450.7	501.9	82.0	0.934	1.005	0.999	-0.012	1.005	-0.000	0.004	0.25	-0.01
25	5.000	0.000-14.142	0.926	0.926	975.9	1448.7	499.6	82.0	0.933	1.007	0.999	-0.015	1.007	-0.000	0.004	0.25	-0.02
26	6.000	0.000-14.142	0.923	0.923	973.8	1449.7	498.7	82.1	0.932	1.008	1.000	-0.016	1.008	-0.001	0.004	0.24	-0.03
27	7.000	0.000-14.142	0.927	0.927	976.7	1450.3	500.6	82.0	0.935	1.008	0.999	-0.018	1.008	-0.000	0.004	0.25	-0.02
28	8.000	0.000-14.142	0.925	0.925	975.4	1450.2	499.8	82.1	0.933	1.007	0.999	-0.016	1.007	-0.000	0.004	0.22	-0.01
29	9.000	0.000-14.142	0.928	0.928	978.2	1449.8	501.3	82.0	0.934	1.005	0.999	-0.013	1.005	-0.000	0.004	0.22	-0.01
30	10.000	0.000-14.142	0.929	0.929	978.7	1450.6	501.9	82.0	0.934	1.005	0.998	-0.012	1.005	-0.000	0.004	0.22	-0.01
31	11.000	0.000-14.142	0.926	0.926	976.3	1449.8	500.2	82.0	0.931	1.004	0.999	-0.010	1.004	-0.000	0.004	0.25	-0.02
32	12.000	0.000-14.142	0.922	0.922	972.2	1449.8	497.8	82.1	0.926	1.004	1.000	-0.008	1.004	-0.000	0.004	0.23	-0.00
33	13.000	0.000-14.142	0.925	0.925	975.2	1450.8	499.9	82.1	0.926	1.001	0.998	-0.005	1.001	-0.000	0.004	0.23	-0.01
34	14.000	0.000-14.142	0.928	0.928	977.8	1449.8	501.1	82.1	0.931	1.003	0.999	-0.006	1.003	-0.000	0.004	0.21	0.00
35	15.000	0.000-14.142	0.929	0.929	979.0	1449.8	501.8	82.0	0.931	1.001	0.999	-0.004	1.001	-0.000	0.003	0.19	0.01
37	16.000	0.000-14.142	0.924	0.924	977.2	1448.9	500.4	82.0	0.931	1.004	0.999	-0.008	1.004	-0.001	0.003	0.15	0.04
40	17.000	0.000-14.142	0.924	0.924	978.5	1449.7	501.5	82.0	0.933	1.004	0.999	-0.009	1.004	-0.000	0.002	0.13	0.02
43	18.000	0.000-14.142	0.924	0.924	974.2	1450.1	499.1	82.0	0.928	1.004	1.000	-0.008	1.004	-0.000	0.002	0.12	0.02
46	19.000	0.000-14.142	0.929	0.929	979.1	1450.6	502.2	82.0	0.932	1.003	0.999	-0.007	1.003	-0.000	0.002	0.09	0.02
49	20.000	0.000-14.142	0.928	0.928	977.7	1451.2	501.5	82.0	0.930	1.002	0.999	-0.006	1.002	-0.000	0.001	0.07	-0.01
51	21.000	0.000-14.142	0.922	0.922	972.3	1449.1	497.7	81.8	0.925	1.003	0.999	-0.007	1.003	-0.000	0.001	0.07	-0.02
52	22.000	0.000-14.142	0.927	0.927	977.1	1449.4	500.6	81.9	0.928	1.001	0.999	-0.004	1.001	-0.001	0.001	0.03	-0.03
53	23.000	0.000-14.142	0.927	0.927	976.7	1450.7	500.8	82.0	0.931	1.004	0.999	-0.010	1.004	-0.000	0.001	0.06	-0.03
54	24.000	0.000-14.142	0.929	0.929	978.7	1450.6	501.9	82.0	0.932	1.003	0.998	-0.009	1.003	-0.001	0.000	0.01	-0.03

DATE 9-MAR-79 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

CONFIG 21

1602

ALFAS 0.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 47

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	RATL	SMTL
3	-6.000	14.142	0.000	0.926	975.6	1449.6	499.8	82.0	0.925	0.999	1.000	0.001	0.999	0.003	0.000	0.02	0.19
7	-5.000	14.142	0.000	0.928	977.5	1449.4	500.8	81.9	0.927	1.000	1.000	0.000	1.000	0.003	0.000	0.01	0.20
8	-4.000	14.142	0.000	0.925	974.8	1451.7	500.0	82.0	0.925	1.000	0.999	-0.002	1.000	0.004	-0.000	-0.02	0.21
9	-3.000	14.142	0.000	0.924	973.8	1450.4	499.0	82.0	0.922	0.998	0.999	0.002	0.998	0.004	-0.000	-0.00	0.22
10	-2.000	14.142	0.000	0.923	973.0	1444.0	498.0	82.0	0.920	0.997	1.000	0.005	0.997	0.004	-0.000	-0.01	0.25
11	-1.000	14.142	0.000	0.926	975.7	1451.1	500.3	82.0	0.923	0.997	0.999	0.004	0.997	0.005	-0.000	-0.02	0.29
12	0.000	14.142	0.000	0.924	974.7	1449.5	499.2	82.0	0.922	0.997	0.999	0.004	0.997	0.006	-0.000	-0.03	0.34
13	1.000	14.142	0.000	0.924	974.2	1449.5	498.8	82.1	0.923	0.999	0.999	0.001	0.999	0.007	-0.001	-0.03	0.40
14	2.000	14.142	0.000	0.923	973.7	1450.9	499.0	82.1	0.924	1.001	0.999	-0.002	1.001	0.007	-0.000	-0.03	0.43
15	3.000	14.142	0.000	0.923	973.5	1449.4	498.4	82.0	0.925	1.001	0.999	-0.004	1.001	0.008	-0.001	-0.04	0.44
16	4.000	14.142	0.000	0.924	974.2	1451.2	499.4	82.1	0.927	1.003	0.999	-0.008	1.003	0.008	-0.001	-0.05	0.47
17	5.000	14.142	0.000	0.924	973.9	1450.4	499.0	82.0	0.928	1.004	0.999	-0.010	1.004	0.008	-0.001	-0.04	0.47
18	6.000	14.142	0.000	0.924	974.3	1449.5	499.0	82.0	0.929	1.005	0.999	-0.011	1.005	0.008	-0.001	-0.04	0.47
19	7.000	14.142	0.000	0.928	978.0	1450.5	501.5	82.0	0.934	1.006	0.999	-0.013	1.006	0.007	-0.001	-0.03	0.41
20	8.000	14.142	0.000	0.929	978.7	1448.2	501.1	81.9	0.936	1.007	1.000	-0.013	1.006	0.006	-0.001	-0.04	0.36
21	9.000	14.142	0.000	0.929	978.6	1450.5	501.8	82.0	0.935	1.006	0.999	-0.013	1.006	0.007	-0.001	-0.03	0.38
22	10.000	14.142	0.000	0.924	978.3	1449.5	501.3	82.0	0.934	1.005	0.999	-0.011	1.005	0.006	-0.001	-0.04	0.36
23	11.000	14.142	0.000	0.927	977.1	1450.2	500.8	82.0	0.932	1.005	1.000	-0.010	1.005	0.006	-0.001	-0.05	0.34
24	12.000	14.142	0.000	0.926	976.2	1449.4	500.4	82.0	0.932	1.006	1.000	-0.011	1.006	0.006	-0.000	-0.02	0.33
25	13.000	14.142	0.000	0.926	975.7	1450.1	500.0	82.0	0.932	1.006	0.999	-0.012	1.006	0.006	-0.000	-0.02	0.35
26	14.000	14.142	0.000	0.929	978.3	1450.7	501.7	82.0	0.934	1.005	0.999	-0.012	1.005	0.006	-0.000	-0.02	0.31
29	15.000	14.142	0.000	0.925	975.1	1449.9	499.6	81.9	0.935	1.009	0.999	-0.019	1.009	0.005	0.000	0.02	0.26
30	16.000	14.142	0.000	0.929	978.6	1449.8	501.6	82.0	0.940	1.011	0.999	-0.022	1.011	0.003	0.001	0.07	0.17
31	17.000	14.142	0.000	0.928	978.0	1449.4	501.1	82.0	0.941	1.012	0.999	-0.024	1.012	0.001	0.002	0.10	0.08
34	18.000	14.142	0.000	0.927	976.5	1449.6	500.3	81.9	0.937	1.009	0.999	-0.020	1.009	-0.000	0.002	0.11	-0.00
35	19.000	14.142	0.000	0.929	978.3	1448.8	501.1	82.0	0.933	1.004	0.999	-0.009	1.004	-0.000	0.002	0.12	-0.00
38	20.000	14.142	0.000	0.928	978.3	1449.6	501.3	82.0	0.934	1.005	1.000	-0.011	1.005	0.000	0.002	0.11	0.01
41	21.000	14.142	0.000	0.927	976.7	1451.0	500.9	82.0	0.931	1.004	0.999	-0.010	1.004	0.000	0.002	0.11	0.00
42	22.000	14.142	0.000	0.930	979.3	1449.7	501.9	82.0	0.933	1.003	0.999	-0.007	1.003	0.000	0.002	0.13	0.02
44	23.000	14.142	0.000	0.929	978.3	1449.5	501.5	82.0	0.934	1.005	0.999	-0.012	1.005	0.000	0.002	0.13	0.02
45	24.000	14.142	0.000	0.928	978.1	1450.0	501.3	82.0	0.932	1.003	0.999	-0.008	1.003	-0.000	0.002	0.12	-0.00

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 695 3.003 5.00 21

SURVEY ALFAS
1601 0.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
8	-5.000	0.000-14.142	0.928	977.5	1449.1	500.8	81.8	0.930	1.002	0.999	-0.006	1.002	0.001	0.001	0.002	0.09	0.03
9	-5.000	0.000-14.142	0.923	973.7	1450.8	499.1	81.9	0.925	1.001	0.999	-0.005	1.001	0.000	0.001	0.001	0.08	0.02
10	-4.000	0.000-14.142	0.922	972.1	1449.4	497.7	81.9	0.922	1.001	0.999	-0.003	1.001	0.001	0.001	0.001	0.04	0.03
15	-3.000	0.000-14.142	0.923	973.5	1449.0	498.4	81.8	0.922	0.999	0.999	-0.000	0.999	0.000	0.000	0.000	0.02	0.02
16	-2.000	0.000-14.142	0.927	976.3	1449.6	500.3	81.8	0.928	1.001	0.999	-0.003	1.001	0.000	0.000	0.000	0.00	0.01
17	-1.000	0.000-14.142	0.924	973.7	1447.2	498.0	81.7	0.924	1.001	0.999	-0.002	1.001	0.000	0.000	0.000	0.04	0.00
18	0.000	0.000-14.142	0.921	971.4	1447.8	496.7	81.8	0.922	1.001	1.000	-0.003	1.001	0.000	0.000	0.000	-0.10	0.02
19	1.000	0.000-14.142	0.923	972.9	1449.7	498.2	82.0	0.923	1.001	0.999	-0.004	1.001	0.000	0.000	0.000	-0.12	0.02
20	2.000	0.000-14.142	0.922	972.4	1449.7	497.9	81.9	0.922	1.000	0.999	-0.002	1.000	0.000	0.000	0.000	-0.14	0.03
21	3.000	0.000-14.142	0.923	973.2	1450.7	498.8	81.9	0.926	1.002	0.999	-0.007	1.002	0.000	0.000	0.000	-0.21	0.00
22	4.000	0.000-14.142	0.920	970.8	1449.6	497.0	81.9	0.924	1.003	0.999	-0.008	1.003	0.000	0.000	0.000	-0.24	0.01
23	5.000	0.000-14.142	0.924	974.5	1449.8	499.2	81.9	0.927	1.003	0.999	-0.007	1.003	0.000	0.000	0.000	-0.27	0.00
24	6.000	0.000-14.142	0.923	972.8	1449.6	498.2	81.9	0.927	1.005	0.999	-0.011	1.005	0.000	0.000	0.000	-0.30	0.00
25	7.000	0.000-14.142	0.921	971.7	1449.2	497.4	81.9	0.926	1.004	0.999	-0.011	1.004	0.001	0.001	0.001	-0.31	0.03
26	8.000	0.000-14.142	0.923	973.5	1449.3	498.5	81.9	0.927	1.004	1.000	-0.008	1.004	0.001	0.001	0.001	-0.36	0.03
27	9.000	0.000-14.142	0.925	974.7	1448.8	499.0	81.9	0.924	0.999	0.999	-0.000	0.999	0.001	0.001	0.001	-0.35	0.03
28	10.000	0.000-14.142	0.925	975.3	1449.1	499.5	81.8	0.924	0.999	0.999	-0.001	0.999	0.000	0.000	0.000	-0.36	0.03
29	11.000	0.000-14.142	0.927	976.6	1448.8	500.1	81.8	0.923	0.997	0.999	-0.004	0.997	0.000	0.000	0.000	-0.43	0.01
30	12.000	0.000-14.142	0.926	976.3	1448.8	500.0	81.8	0.923	0.997	1.000	-0.006	0.997	0.000	0.000	0.000	-0.45	0.03
34	13.000	0.000-14.142	0.928	977.9	1449.3	501.1	81.8	0.924	0.996	0.999	-0.006	0.996	0.001	0.000	0.000	-0.49	0.04
35	14.000	0.000-14.142	0.929	978.6	1449.2	501.4	81.9	0.923	0.994	0.999	-0.010	0.994	0.001	0.000	0.000	-0.49	0.03
37	15.000	0.000-14.142	0.922	972.1	1449.5	497.7	81.9	0.918	0.996	0.999	-0.006	0.996	0.001	0.000	0.000	-0.51	0.05
38	16.000	0.000-14.142	0.926	976.0	1449.0	499.9	81.7	0.924	0.998	0.999	-0.003	0.994	0.001	0.000	0.000	-0.53	0.05
39	17.000	0.000-14.142	0.926	976.1	1449.6	500.1	81.7	0.924	0.998	1.000	-0.004	0.998	0.001	0.000	0.000	-0.53	0.05
41	18.000	0.000-14.142	0.928	978.0	1450.3	501.5	81.8	0.927	0.999	0.999	-0.002	0.998	0.001	0.000	0.000	-0.52	0.04
44	19.000	0.000-14.142	0.929	978.2	1448.4	501.0	81.8	0.927	0.998	1.000	-0.003	0.998	0.001	0.000	0.000	-0.53	0.07
47	20.000	0.000-14.142	0.922	972.1	1450.2	498.0	81.8	0.920	0.998	0.998	-0.000	0.998	0.001	0.000	0.000	-0.53	0.07
48	21.000	0.000-14.142	0.928	977.1	1448.4	500.4	81.7	0.925	0.997	0.999	-0.004	0.997	0.001	0.000	0.000	-0.58	0.05
49	22.000	0.000-14.142	0.927	976.7	1448.8	500.3	81.7	0.927	1.000	0.999	-0.002	1.000	0.001	0.000	0.000	-0.58	0.04
52	23.000	0.000-14.142	0.926	975.5	1448.3	499.4	81.7	0.927	1.001	0.999	-0.004	1.001	0.000	0.000	0.000	-0.44	0.02
53	24.000	0.000-14.142	0.927	976.3	1448.6	499.9	81.7	0.928	1.002	0.999	-0.004	1.001	0.001	0.001	0.001	-0.42	0.01

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A EVEREUP CORPORATION COMPANY

PROPELSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PAPI REX10-6 ALFA CONFIG

TC-332 596 2.997 5.00 21

SURVEY ALFAS
1602 0.01

DATE
2-22-78

AEDC PROPELSION WIND TUNNEL
TRANSONIC 41

POINT	XT	YT	ZT	M	V4	PT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
3	-6.000	14.142	0.000	0.924	973.9	1448.7	498.5	81.8	0.921	0.998	0.999	0.003	0.998	0.003	0.000	0.00	0.13
4	-5.000	14.142	0.000	0.923	973.6	1449.1	498.5	81.8	0.921	0.998	1.000	0.003	0.998	0.004	0.000	0.00	0.23
5	-4.000	14.142	0.000	0.927	977.3	1451.3	501.4	81.9	0.926	0.999	0.999	0.001	0.999	0.005	-0.000	-0.01	0.27
6	-3.000	14.142	0.000	0.926	975.9	1449.1	498.8	81.9	0.924	0.998	0.999	0.002	0.998	0.005	-0.000	-0.02	0.26
7	-2.000	14.142	0.000	0.922	972.7	1449.6	498.1	81.9	0.920	0.998	0.999	0.003	0.998	0.005	-0.000	-0.02	0.30
8	-1.000	14.142	0.000	0.922	972.5	1450.3	498.2	81.9	0.920	0.998	0.999	0.002	0.998	0.005	-0.001	-0.03	0.31
9	0.000	14.142	0.000	0.925	974.8	1449.0	499.1	81.9	0.921	0.996	0.999	0.006	0.996	0.006	-0.001	-0.04	0.36
10	1.000	14.142	0.000	0.927	976.5	1450.0	500.4	81.9	0.926	0.999	0.999	0.000	0.999	0.007	-0.001	-0.05	0.41
11	2.000	14.142	0.000	0.925	974.7	1449.5	499.3	81.8	0.925	1.001	0.999	-0.003	1.001	0.008	-0.001	-0.05	0.42
12	3.000	14.142	0.000	0.923	973.6	1447.9	498.1	81.8	0.924	1.001	0.999	-0.002	1.001	0.009	-0.001	-0.07	0.49
13	4.000	14.142	0.000	0.923	973.5	1450.0	498.8	81.8	0.926	1.003	1.000	-0.006	1.003	0.009	-0.001	-0.08	0.50
14	5.000	14.142	0.000	0.924	973.9	1449.6	498.9	81.8	0.927	1.003	0.999	-0.008	1.003	0.009	-0.001	-0.05	0.51
15	6.000	14.142	0.000	0.924	973.6	1448.3	498.2	81.8	0.927	1.004	0.999	-0.008	1.004	0.009	-0.001	-0.06	0.50
16	7.000	14.142	0.000	0.924	974.1	1448.4	498.6	81.7	0.929	1.004	0.999	-0.010	1.004	0.009	-0.001	-0.03	0.52
17	8.000	14.142	0.000	0.925	976.0	1449.1	499.9	81.8	0.930	1.004	0.999	-0.010	1.004	0.008	-0.001	-0.04	0.47
18	9.000	14.142	0.000	0.927	977.0	1448.6	500.2	82.0	0.930	1.003	1.000	-0.006	1.003	0.008	-0.000	-0.02	0.45
19	10.000	14.142	0.000	0.926	976.2	1449.8	500.2	81.9	0.928	1.002	0.999	-0.005	1.002	0.008	0.000	0.00	0.45
20	11.000	14.142	0.000	0.924	974.5	1448.8	499.8	82.0	0.926	1.002	0.999	-0.005	1.002	0.008	0.000	0.00	0.46
21	12.000	14.142	0.000	0.927	976.7	1450.1	500.0	81.9	0.927	1.000	0.999	-0.003	1.000	0.008	0.001	0.00	0.46
22	13.000	14.142	0.000	0.930	979.4	1450.3	502.3	81.8	0.933	1.003	0.999	-0.007	1.003	0.009	0.002	0.11	0.52
23	14.000	14.142	0.000	0.929	978.2	1449.6	501.4	81.8	0.933	1.004	0.999	-0.010	1.004	0.009	0.003	0.18	0.52
24	15.000	14.142	0.000	0.929	978.4	1449.9	501.6	81.8	0.938	1.009	0.999	-0.018	1.009	0.009	0.005	0.28	0.51
25	16.000	14.142	0.000	0.929	978.5	1450.3	501.8	81.8	0.943	1.013	0.999	-0.028	1.013	0.007	0.006	0.36	0.50
26	17.000	14.142	0.000	0.929	978.6	1449.2	501.4	81.9	0.948	1.017	0.999	-0.035	1.017	0.004	0.009	0.52	0.22
28	18.000	14.142	0.000	0.929	978.4	1450.0	501.6	81.9	0.941	1.011	0.999	-0.024	1.011	0.001	0.001	0.61	0.68
29	19.000	14.142	0.000	0.930	979.2	1449.4	501.9	81.7	0.937	1.006	0.999	-0.013	1.006	0.001	0.011	0.64	0.68
32	20.000	14.142	0.000	0.927	976.6	1450.4	500.0	81.9	0.932	1.005	0.999	-0.012	1.005	0.001	0.011	0.64	0.68
33	21.000	14.142	0.000	0.928	978.2	1449.1	501.1	81.9	0.931	1.002	0.999	-0.006	1.002	0.002	0.011	0.63	0.12
36	22.000	14.142	0.000	0.928	977.6	1448.7	500.0	81.9	0.932	1.004	1.000	-0.009	1.004	0.002	0.012	0.65	0.13
39	23.000	14.142	0.000	0.927	976.6	1448.4	500.0	81.8	0.934	1.006	0.999	-0.014	1.006	0.002	0.011	0.64	0.13
40	24.000	14.142	0.000	0.926	976.1	1450.1	500.3	81.8	0.929	1.003	0.999	-0.008	1.003	0.002	0.011	0.65	0.10

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPUSSION WIND TUNNEL

APNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-0 ALPHA CONFIC

IC-532 710 3.007 0.00 21 1501 0.02

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-22-78

POINT	XT	YT	ZT	M	VM	PT	Q	TT	MC	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
7	-6.000	0.000-14.142	0.954	1000.1	1436.1	509.3	81.4	0.960	1.006	0.999	-0.012	1.006	-0.001	0.003	0.15	-0.06	
8	-5.000	0.000-14.142	0.952	998.6	1434.1	507.8	81.4	0.955	1.003	0.999	-0.006	1.003	-0.001	0.003	0.16	-0.05	
9	-4.000	0.000-14.142	0.950	996.6	1433.6	506.5	81.4	0.951	1.002	1.000	-0.003	1.002	-0.001	0.002	0.12	-0.07	
10	-3.000	0.000-14.142	0.948	994.8	1434.7	505.9	81.4	0.949	1.002	1.000	-0.003	1.002	-0.001	0.001	0.07	-0.06	
11	-2.000	0.000-14.142	0.945	992.8	1435.4	505.1	81.3	0.948	1.002	1.000	-0.006	1.002	-0.001	0.001	0.05	-0.06	
13	-1.000	0.000-14.142	0.949	996.0	1435.0	506.6	81.4	0.950	1.001	1.000	-0.003	1.001	-0.001	-0.000	-0.00	-0.07	
14	0.000	0.000-14.142	0.948	994.8	1435.7	506.2	81.4	0.950	1.002	0.999	-0.005	1.002	-0.001	-0.001	-0.05	-0.05	
15	1.000	0.000-14.142	0.951	998.0	1433.9	507.4	81.3	0.952	1.001	0.999	-0.003	1.001	-0.001	-0.001	-0.02	-0.12	
16	2.000	0.000-14.142	0.949	995.7	1433.8	506.1	81.3	0.951	1.002	0.999	-0.006	1.002	-0.001	-0.003	-0.18	-0.06	
17	3.000	0.000-14.142	0.950	996.4	1433.9	506.6	81.2	0.952	1.002	0.999	-0.006	1.002	-0.001	-0.004	-0.21	-0.07	
20	4.000	0.000-14.142	0.949	996.2	1434.0	506.4	81.4	0.959	1.009	1.000	-0.018	1.009	-0.001	-0.004	-0.25	-0.07	
21	5.000	0.000-14.142	0.946	993.6	1434.1	505.0	81.4	0.959	1.011	1.000	-0.022	1.011	-0.002	-0.004	-0.23	-0.09	
22	6.000	0.000-14.142	0.950	995.7	1435.9	507.4	81.4	0.965	1.014	1.000	-0.028	1.014	-0.001	-0.004	-0.24	-0.07	
23	7.000	0.000-14.142	0.948	993.0	1433.2	505.4	81.4	0.964	1.015	1.000	-0.030	1.015	-0.001	-0.004	-0.20	-0.05	
24	8.000	0.000-14.142	0.950	996.8	1435.4	507.2	81.4	0.965	1.014	1.000	-0.028	1.014	-0.001	-0.003	-0.16	-0.05	
25	9.000	0.000-14.142	0.949	995.8	1434.7	506.5	81.2	0.963	1.012	1.000	-0.025	1.012	-0.001	-0.003	-0.15	-0.07	
26	10.000	0.000-14.142	0.949	995.6	1433.1	505.9	81.2	0.960	1.010	1.000	-0.020	1.010	-0.001	-0.002	-0.12	-0.07	
27	11.000	0.000-14.142	0.948	994.9	1432.2	505.2	81.2	0.956	1.007	1.000	-0.014	1.007	-0.001	-0.002	-0.12	-0.05	
28	12.000	0.000-14.142	0.950	997.1	1433.7	506.9	81.3	0.959	1.007	0.999	-0.015	1.007	-0.001	-0.002	-0.12	-0.06	
29	13.000	0.000-14.142	0.953	999.9	1433.9	508.4	81.4	0.962	1.008	0.999	-0.017	1.008	-0.001	-0.001	-0.09	-0.05	
31	14.000	0.000-14.142	0.947	994.5	1433.4	505.2	81.4	0.958	1.010	1.000	-0.019	1.010	-0.001	-0.003	-0.02	-0.05	
33	15.000	0.000-14.142	0.951	997.8	1433.3	507.1	81.4	0.963	1.011	1.000	-0.023	1.011	-0.001	0.000	0.02	-0.05	
34	16.000	0.000-14.142	0.952	998.7	1435.8	508.4	81.4	0.970	1.016	1.000	-0.032	1.016	-0.001	0.002	0.07	-0.04	
35	17.000	0.000-14.142	0.947	994.3	1435.7	505.9	81.5	0.960	1.012	1.000	-0.024	1.012	-0.000	0.003	0.16	-0.02	
37	18.000	0.000-14.142	0.952	998.9	1433.8	507.8	81.4	0.967	1.013	1.000	-0.025	1.013	-0.001	0.005	0.27	-0.04	
38	19.000	0.000-14.142	0.953	999.4	1434.3	508.3	81.4	0.964	1.010	1.000	-0.020	1.010	-0.000	0.005	0.27	-0.03	
40	20.000	0.000-14.142	0.951	998.0	1434.6	507.6	81.4	0.960	1.008	1.000	-0.016	1.008	-0.001	0.005	0.26	-0.05	
42	21.000	0.000-14.142	0.953	999.2	1433.9	508.1	81.4	0.961	1.007	1.000	-0.014	1.007	-0.001	0.004	0.24	-0.06	
46	22.000	0.000-14.142	0.953	1000.1	1434.7	508.8	81.4	0.961	1.007	0.999	-0.015	1.007	-0.001	0.004	0.23	-0.04	
47	23.000	0.000-14.142	0.953	1000.0	1434.6	508.7	81.5	0.964	1.009	1.000	-0.019	1.009	-0.001	0.004	0.25	-0.07	
48	24.000	0.000-14.142	0.950	997.2	1433.8	506.9	81.4	0.958	1.007	1.000	-0.013	1.007	-0.001	0.005	0.29	-0.08	

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARLORD AIR FORCE STATION, TENNESSEE

TEST PART REA10-6 ALFA CONFIG

TC-532 711 2.999 0.00 21

SURVEY ALFAS
1602 0.01

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSOMIC AT

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AXIL	SWIL
3	-9.000	14.142	0.000	0.950	996.5	1433.7	506.6	81.2	0.950	1.000	1.000	-0.001	1.000	0.002	0.001	0.05	0.11
4	-5.000	14.142	0.000	0.949	996.3	1433.7	506.4	81.3	0.951	1.002	1.000	-0.003	1.002	0.002	0.000	0.03	0.11
5	-1.000	14.142	0.000	0.950	996.5	1433.6	506.5	81.3	0.951	1.002	1.000	-0.003	1.002	0.002	0.000	0.02	0.13
6	-3.000	14.142	0.000	0.949	995.9	1433.3	506.1	81.2	0.948	0.999	1.000	0.002	0.999	0.003	0.000	0.02	0.15
7	-2.000	14.142	0.000	0.950	996.8	1434.2	506.8	81.3	0.948	0.999	1.000	0.001	0.999	0.003	0.000	0.00	0.20
8	-1.000	14.142	0.000	0.950	996.7	1435.1	507.0	81.4	0.948	0.999	1.000	0.002	0.999	0.004	0.000	0.01	0.24
9	0.000	14.142	0.000	0.948	995.6	1434.2	506.1	81.4	0.948	0.999	1.000	0.002	0.999	0.005	0.000	0.01	0.28
10	1.000	14.142	0.000	0.948	994.9	1434.4	505.8	81.4	0.948	1.000	1.000	0.000	1.000	0.005	0.000	0.02	0.36
11	2.000	14.142	0.000	0.949	996.1	1435.1	506.7	81.4	0.951	1.002	1.000	-0.003	1.002	0.007	-0.000	-0.00	0.39
12	3.000	14.142	0.000	0.951	997.5	1434.2	507.2	81.4	0.952	1.002	1.000	-0.003	1.002	0.007	0.000	0.00	0.41
13	4.000	14.142	0.000	0.952	998.5	1436.0	508.4	81.4	0.956	1.006	1.000	-0.012	1.006	0.008	-0.000	-0.02	0.43
14	5.000	14.142	0.000	0.953	999.3	1435.5	508.6	81.4	0.962	1.009	1.000	-0.018	1.009	0.008	-0.000	-0.01	0.45
15	6.000	14.142	0.000	0.953	999.5	1434.5	508.4	81.4	0.966	1.011	1.000	-0.023	1.011	0.008	-0.000	-0.01	0.43
16	7.000	14.142	0.000	0.954	1000.3	1434.3	508.9	81.3	0.969	1.013	1.000	-0.026	1.013	0.007	-0.001	-0.03	0.37
17	8.000	14.142	0.000	0.951	999.0	1434.1	507.4	81.4	0.965	1.012	1.000	-0.025	1.012	0.006	-0.001	-0.05	0.32
18	9.000	14.142	0.000	0.952	994.5	1434.1	507.7	81.4	0.961	1.008	1.000	-0.016	1.008	0.005	-0.001	-0.05	0.26
19	10.000	14.142	0.000	0.954	1000.2	1435.0	507.0	81.4	0.963	1.008	1.000	-0.017	1.008	0.005	-0.001	-0.03	0.26
20	11.000	14.142	0.000	0.951	997.9	1433.4	507.2	81.2	0.956	1.004	1.000	-0.008	1.004	0.005	-0.000	-0.03	0.27
21	12.000	14.142	0.000	0.952	999.0	1434.2	508.0	81.4	0.960	1.007	1.000	-0.013	1.007	0.005	-0.001	-0.06	0.27
22	13.000	14.142	0.000	0.951	997.8	1432.5	506.8	81.3	0.958	1.006	1.000	-0.011	1.006	0.005	-0.001	-0.06	0.27
23	14.000	14.142	0.000	0.952	999.1	1434.7	508.3	81.4	0.965	1.012	1.000	-0.023	1.012	0.005	-0.002	-0.05	0.29
24	15.000	14.142	0.000	0.951	998.0	1433.3	507.2	81.3	0.964	1.012	1.000	-0.023	1.012	0.004	-0.001	-0.06	0.23
25	16.000	14.142	0.000	0.949	996.3	1434.3	506.6	81.3	0.969	1.018	1.000	-0.035	1.018	0.003	-0.001	-0.06	0.15
26	17.000	14.142	0.000	0.950	997.2	1434.6	507.2	81.4	0.982	1.028	1.001	-0.055	1.028	0.000	-0.002	-0.13	0.00
27	18.000	14.142	0.000	0.951	997.7	1435.3	507.7	81.4	0.971	1.018	1.000	-0.036	1.018	-0.003	-0.002	-0.12	0.00
28	19.000	14.142	0.000	0.946	993.6	1433.9	505.0	81.3	0.955	1.008	1.000	-0.015	1.008	-0.002	-0.002	-0.12	0.00
29	20.000	14.142	0.000	0.954	1000.3	1434.1	508.7	81.4	0.959	1.005	1.000	-0.011	1.005	-0.002	-0.002	-0.14	0.00
30	21.000	14.142	0.000	0.955	1001.4	1435.1	509.7	81.4	0.953	1.005	1.000	-0.008	1.005	-0.001	-0.002	-0.13	0.09
31	22.000	14.142	0.000	0.948	994.8	1432.7	505.2	81.4	0.953	1.005	1.000	-0.009	1.005	-0.001	-0.002	-0.14	0.07
32	23.000	14.142	0.000	0.954	1000.6	1434.2	508.9	81.4	0.961	1.006	1.000	-0.012	1.006	-0.001	-0.002	-0.12	0.06
33	24.000	14.142	0.000	0.953	999.9	1436.1	509.2	81.4	0.963	1.009	1.000	-0.019	1.009	-0.001	-0.003	-0.16	0.08

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARND AIR FORCE STATION, TENNESSEE

TEST P41C REX10-6 ALPHA CONFIG SURVEY ALPAC

TC-532 713 3.000 2.00 21 1601 0.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	ARTL S&TL
8	-5.000	0.000-14.142	0.000-14.142	0.952	998.3	1433.6	507.5	81.3	0.956	1.004	1.000	-0.008	1.004	-0.001	0.003	0.18 -0.04
9	-5.000	0.000-14.142	0.951	997.7	1435.2	507.6	81.5	0.956	0.956	1.005	1.000	-0.009	1.005	-0.001	0.002	0.13 -0.04
10	-4.000	0.000-14.142	0.948	995.6	1433.7	505.9	81.4	0.951	0.951	1.002	1.000	-0.005	1.002	-0.001	0.002	0.11 -0.05
11	-3.000	0.000-14.142	0.946	993.6	1434.6	505.2	81.4	0.948	0.948	1.002	1.000	-0.004	1.002	-0.001	0.001	0.07 -0.05
13	-2.000	0.000-14.142	0.947	994.5	1435.3	505.9	81.4	0.949	0.949	1.000	0.999	-0.001	1.000	-0.001	0.001	0.06 -0.05
14	-1.000	0.000-14.142	0.949	995.5	1433.6	506.0	81.2	0.949	0.949	1.000	1.000	-0.001	1.000	-0.001	0.000	0.01 -0.07
15	0.000	0.000-14.142	0.947	993.6	1433.5	504.9	81.1	0.949	0.949	1.002	0.999	-0.005	1.002	-0.001	-0.001	0.01 -0.03
16	1.000	0.000-14.142	0.946	993.7	1433.6	504.9	81.4	0.947	0.947	1.001	0.999	-0.003	1.001	-0.001	-0.001	0.01 -0.03
17	2.000	0.000-14.142	0.946	993.1	1434.7	504.9	81.4	0.947	0.947	1.001	0.999	-0.004	1.001	-0.001	-0.001	0.01 -0.03
18	3.000	0.000-14.142	0.946	993.7	1435.2	505.4	81.4	0.952	0.952	1.005	1.000	-0.011	1.005	-0.001	-0.002	0.13 -0.08
19	4.000	0.000-14.142	0.947	994.6	1435.3	506.0	81.4	0.957	0.957	1.008	0.999	-0.017	1.008	-0.002	-0.004	0.23 -0.03
20	5.000	0.000-14.142	0.948	995.6	1434.1	506.1	81.4	0.959	0.959	1.009	1.000	-0.018	1.009	-0.002	-0.004	0.23 -0.03
21	6.000	0.000-14.142	0.948	994.8	1435.0	506.0	81.3	0.960	0.960	1.011	0.999	-0.024	1.011	-0.001	-0.004	0.25 -0.05
22	7.000	0.000-14.142	0.947	994.1	1433.3	505.1	81.2	0.957	0.957	1.009	0.999	-0.020	1.009	-0.001	-0.004	0.21 -0.05
23	8.000	0.000-14.142	0.948	995.0	1433.7	505.7	81.2	0.960	0.960	1.011	1.000	-0.022	1.011	-0.001	-0.003	0.14 -0.03
24	9.000	0.000-14.142	0.948	995.1	1434.6	506.0	81.3	0.959	0.959	1.010	0.999	-0.021	1.010	-0.001	-0.003	0.12 -0.05
25	10.000	0.000-14.142	0.947	994.2	1434.2	505.4	81.3	0.954	0.954	1.006	0.999	-0.014	1.006	-0.001	-0.003	0.16 -0.09
26	11.000	0.000-14.142	0.949	995.7	1433.7	506.1	81.3	0.955	0.955	1.005	1.000	-0.011	1.005	-0.001	-0.003	0.18 -0.05
27	12.000	0.000-14.142	0.949	996.5	1433.9	506.5	81.4	0.953	0.953	1.003	1.000	-0.006	1.003	-0.001	-0.003	0.18 -0.05
28	13.000	0.000-14.142	0.953	999.2	1434.0	508.1	81.4	0.956	0.956	1.003	1.000	-0.006	1.003	-0.001	-0.004	0.20 -0.07
30	14.000	0.000-14.142	0.948	995.0	1435.3	509.2	81.3	0.952	0.952	1.003	0.999	-0.008	1.003	-0.001	-0.003	0.15 -0.05
31	15.000	0.000-14.142	0.953	999.6	1433.7	508.0	81.3	0.961	0.961	1.008	0.999	-0.016	1.008	-0.001	-0.003	0.18 -0.05
32	16.000	0.000-14.142	0.948	995.0	1434.1	505.8	81.4	0.955	0.955	1.006	1.000	-0.012	1.006	-0.001	-0.002	0.10 -0.05
34	17.000	0.000-14.142	0.950	997.3	1434.8	507.3	81.4	0.959	0.959	1.008	1.000	-0.016	1.008	-0.001	-0.001	0.04 -0.03
35	18.000	0.000-14.142	0.948	994.8	1434.0	505.6	81.4	0.953	0.953	1.005	0.999	-0.011	1.005	-0.001	-0.001	0.04 -0.03
38	19.000	0.000-14.142	0.951	997.8	1434.5	507.5	81.4	0.957	0.957	1.005	0.999	-0.012	1.005	-0.001	-0.000	0.02 -0.04
40	20.000	0.000-14.142	0.951	998.0	1434.8	507.7	81.4	0.956	0.956	1.004	1.000	-0.009	1.004	-0.001	-0.000	0.02 -0.05
41	21.000	0.000-14.142	0.951	997.6	1435.5	507.7	81.4	0.956	0.956	1.005	0.999	-0.011	1.005	-0.001	-0.001	0.04 -0.05
43	22.000	0.000-14.142	0.954	1000.6	1435.5	509.4	81.4	0.961	0.961	1.006	0.999	-0.014	1.006	-0.001	-0.001	0.04 -0.05
44	23.000	0.000-14.142	0.954	1000.3	1433.5	508.5	81.5	0.961	0.961	1.007	1.000	-0.013	1.007	-0.001	0.001	0.04 -0.07
45	24.000	0.000-14.142	0.949	996.5	1434.5	506.7	81.5	0.957	0.957	1.007	1.000	-0.013	1.007	-0.001	0.000	0.02 -0.05

DATE 9-MAR-78 PROJECT NO P41C-N0C

AND, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNDT AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

CONFIG 21

SURVEY ALFAS

1602 0.02

DATE 2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SKTL
2	-6.000	14.142	0.000	0.949	996.0	1433.3	506.1	81.2	0.950	1.001	1.000	-0.001	1.001	0.002	0.001	0.04	0.12
3	-5.000	14.142	0.000	0.950	996.5	1433.9	506.6	81.2	0.950	1.001	1.000	-0.002	1.001	0.002	0.001	0.03	0.13
4	-4.000	14.142	0.000	0.949	996.4	1433.7	506.4	81.3	0.948	0.999	1.000	0.001	0.999	0.003	0.001	0.03	0.14
5	-3.000	14.142	0.000	0.950	997.1	1435.3	507.3	81.4	0.950	1.000	1.000	0.000	1.000	0.003	0.003	0.02	0.15
6	-2.000	14.142	0.000	0.950	996.7	1435.1	507.1	81.4	0.948	0.999	0.999	0.001	0.999	0.004	0.001	0.03	0.21
7	-1.000	14.142	0.000	0.948	995.1	1432.1	505.1	81.4	0.945	0.998	1.001	0.006	0.998	0.004	0.000	0.03	0.23
8	0.000	14.142	0.000	0.949	996.0	1435.9	507.0	81.4	0.948	1.000	1.000	0.000	1.000	0.005	0.000	0.01	0.26
9	1.000	14.142	0.000	0.949	995.8	1435.6	506.7	81.4	0.948	1.000	0.999	0.000	1.000	0.006	0.000	0.00	0.34
10	2.000	14.142	0.000	0.952	998.7	1435.7	508.4	81.4	0.954	1.002	1.000	-0.005	1.002	0.007	0.000	0.00	0.36
11	3.000	14.142	0.000	0.952	998.6	1434.8	508.0	81.4	0.956	1.003	1.000	-0.007	1.003	0.008	0.000	0.00	0.43
12	4.000	14.142	0.000	0.952	998.3	1434.4	507.7	81.3	0.958	1.006	1.000	-0.011	1.006	0.008	0.000	0.01	0.45
13	5.000	14.142	0.000	0.952	998.9	1434.1	508.1	81.1	0.963	1.009	0.999	-0.019	1.009	0.008	0.000	0.01	0.45
14	6.000	14.142	0.000	0.953	999.6	1433.1	508.1	81.1	0.964	1.009	1.000	-0.019	1.009	0.007	0.000	0.00	0.41
17	7.000	14.142	0.000	0.954	1000.2	1432.7	508.3	81.1	0.969	1.013	1.000	-0.026	1.013	0.006	0.000	0.01	0.35
18	8.000	14.142	0.000	0.950	996.8	1432.7	506.3	81.3	0.964	1.012	1.000	-0.025	1.012	0.006	0.000	0.02	0.33
19	9.000	14.142	0.000	0.949	995.7	1433.3	505.9	81.3	0.956	1.007	1.000	-0.013	1.007	0.005	0.000	0.00	0.29
20	10.000	14.142	0.000	0.951	997.6	1435.2	507.6	81.4	0.959	1.007	1.000	-0.015	1.007	0.005	0.000	0.00	0.29
21	11.000	14.142	0.000	0.952	999.0	1434.7	508.2	81.4	0.957	1.004	1.000	-0.009	1.004	0.005	0.000	0.00	0.28
22	12.000	14.142	0.000	0.955	1000.9	1432.5	504.9	81.2	0.959	1.004	1.000	-0.008	1.004	0.005	0.000	0.03	0.28
23	13.000	14.142	0.000	0.950	997.1	1434.2	507.0	81.4	0.957	1.006	1.000	-0.013	1.006	0.005	0.001	0.04	0.31
24	14.000	14.142	0.000	0.954	1000.2	1433.9	508.0	81.4	0.962	1.007	1.000	-0.014	1.007	0.005	0.001	0.06	0.30
25	15.000	14.142	0.000	0.950	995.3	1432.3	506.0	81.1	0.962	1.011	1.000	-0.022	1.011	0.005	0.002	0.09	0.26
26	16.000	14.142	0.000	0.952	998.3	1432.8	507.2	81.3	0.971	1.018	1.000	-0.035	1.018	0.004	0.002	0.11	0.22
27	17.000	14.142	0.000	0.952	998.9	1435.0	508.3	81.3	0.976	1.021	1.000	-0.043	1.021	0.001	0.003	0.15	0.04
28	18.000	14.142	0.000	0.952	998.8	1433.4	507.7	81.3	0.980	1.025	1.000	-0.049	1.025	0.000	0.003	0.18	0.15
29	19.000	14.142	0.000	0.948	995.2	1433.4	505.7	81.3	0.957	1.008	1.000	-0.016	1.008	0.002	0.003	0.18	0.13
30	20.000	14.142	0.000	0.952	998.5	1434.2	507.8	81.3	0.959	1.006	1.000	-0.013	1.006	0.002	0.003	0.17	0.11
31	21.000	14.142	0.000	0.954	1000.0	1433.2	506.4	81.1	0.959	1.005	1.000	-0.009	1.005	0.001	0.003	0.19	0.07
32	22.000	14.142	0.000	0.951	998.1	1433.0	507.1	81.4	0.957	1.005	1.000	-0.010	1.005	0.001	0.003	0.19	0.06
33	23.000	14.142	0.000	0.954	1000.2	1434.3	508.8	81.3	0.962	1.007	1.000	-0.014	1.007	0.001	0.003	0.20	0.03
35	24.000	14.142	0.000	0.952	998.5	1434.9	508.0	81.4	0.960	1.007	1.000	-0.015	1.007	0.001	0.003	0.19	0.08

DATE 9-MAR-78 PROJECT NO P41C-NOC

APU, INC.

AEC DIVISION

A SUPERGROUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIC

IC-532 739 3.001 5.00 21

SURVEY ALFAS

1601 0.00

DATE

2-23-78

AEC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
7	-9.000	0.000-14.142	0.949	995.3	1434.3	506.3	80.9	0.953	0.953	1.003	0.999	-0.008	1.003	-0.001	0.002	0.13	-0.04
10	-5.000	0.000-14.142	0.946	993.0	1433.1	504.5	80.9	0.948	0.948	1.002	1.000	-0.004	1.002	-0.001	0.002	0.12	-0.04
11	-4.000	0.000-14.142	0.946	992.8	1433.4	504.5	81.0	0.948	0.948	1.002	0.999	-0.006	1.002	-0.001	0.002	0.09	-0.07
13	-3.000	0.000-14.142	0.949	996.0	1434.0	506.5	81.0	0.950	0.950	1.001	0.999	-0.003	1.001	-0.001	0.001	0.06	-0.03
14	-2.000	0.000-14.142	0.947	993.9	1433.8	505.2	81.1	0.949	0.949	1.002	1.000	-0.004	1.002	-0.001	0.001	0.04	-0.02
16	-1.000	0.000-14.142	0.947	994.2	1433.7	505.0	81.1	0.946	0.946	0.999	1.000	0.002	0.999	-0.001	0.000	0.01	-0.01
17	0.000	0.000-14.142	0.948	994.9	1433.6	505.8	80.9	0.949	0.949	1.001	1.000	-0.001	1.001	-0.001	-0.001	-0.04	-0.07
18	1.000	0.000-14.142	0.946	993.1	1433.2	504.7	80.9	0.948	0.948	1.002	1.000	-0.004	1.002	-0.001	-0.002	-0.11	-0.06
19	2.000	0.000-14.142	0.946	992.9	1431.9	504.1	80.9	0.948	0.948	1.002	1.000	-0.004	1.002	-0.001	-0.003	-0.16	-0.07
22	3.000	0.000-14.142	0.950	996.6	1432.6	506.5	80.7	0.954	0.954	1.004	0.999	-0.009	1.004	-0.001	-0.004	-0.21	-0.05
23	4.000	0.000-14.142	0.948	994.3	1433.4	505.4	80.8	0.955	0.955	1.007	0.999	-0.014	1.007	-0.001	-0.004	-0.24	-0.05
25	5.000	0.000-14.142	0.948	994.5	1432.6	505.3	80.8	0.954	0.954	1.006	1.000	-0.012	1.006	-0.001	-0.004	-0.24	-0.05
26	6.000	0.000-14.142	0.936	993.3	1432.3	504.5	80.9	0.956	0.956	1.009	1.000	-0.018	1.004	-0.001	-0.005	-0.26	-0.05
27	7.000	0.000-14.142	0.948	993.8	1432.7	505.4	80.9	0.957	0.957	1.008	1.000	-0.016	1.008	-0.001	-0.005	-0.27	-0.06
28	8.000	0.000-14.142	0.949	995.6	1434.8	506.5	81.1	0.955	0.955	1.006	0.999	-0.013	1.006	-0.001	-0.005	-0.26	-0.03
29	9.000	0.000-14.142	0.948	994.3	1432.8	505.2	80.9	0.951	0.951	1.003	1.000	-0.006	1.003	-0.001	-0.005	-0.29	-0.06
30	10.000	0.000-14.142	0.937	994.3	1433.6	505.4	81.0	0.948	0.948	1.001	1.000	-0.002	1.001	-0.001	-0.006	-0.32	-0.07
31	11.000	0.000-14.142	0.937	991.4	1432.2	505.0	81.0	0.944	0.944	0.997	1.000	0.005	0.997	-0.001	-0.006	-0.34	-0.03
32	12.000	0.000-14.142	0.949	996.3	1432.8	505.8	80.8	0.949	0.949	0.997	1.000	0.007	0.997	-0.001	-0.007	-0.40	-0.04
33	13.000	0.000-14.142	0.952	998.1	1433.4	507.8	81.0	0.949	0.949	0.997	1.000	0.007	0.997	-0.001	-0.008	-0.46	-0.05
38	14.000	0.000-14.142	0.947	993.9	1432.6	504.8	81.0	0.943	0.943	0.996	1.000	0.007	0.996	-0.000	-0.008	-0.46	-0.02
40	15.000	0.000-14.142	0.953	999.0	1432.3	507.6	80.9	0.952	0.952	0.999	1.000	0.001	0.999	-0.000	-0.009	-0.50	-0.01
42	16.000	0.000-14.142	0.952	998.2	1434.4	507.8	81.1	0.952	0.952	1.000	0.999	-0.001	1.000	-0.000	-0.009	-0.49	-0.01
43	17.000	0.000-14.142	0.946	993.1	1433.4	504.6	81.0	0.945	0.945	0.999	1.000	0.001	0.999	-0.000	-0.008	-0.47	-0.02
45	18.000	0.000-14.142	0.951	997.0	1433.5	506.9	80.9	0.950	0.950	1.000	0.999	-0.001	1.000	-0.000	-0.008	-0.45	-0.01
46	19.000	0.000-14.142	0.928	994.8	1434.8	506.1	81.0	0.948	0.948	1.000	0.999	-0.002	1.000	-0.000	-0.008	-0.45	-0.01
47	20.000	0.000-14.142	0.953	998.8	1433.0	507.7	81.0	0.954	0.954	1.002	0.999	-0.004	1.002	-0.000	-0.008	-0.43	-0.00
48	21.000	0.000-14.142	0.953	998.8	1433.2	508.1	81.0	0.955	0.955	1.002	0.999	-0.006	1.002	-0.000	-0.008	-0.43	-0.00
49	22.000	0.000-14.142	0.954	999.8	1433.8	508.6	80.8	0.956	0.956	1.002	1.000	-0.005	1.002	-0.000	-0.007	-0.40	-0.03
50	23.000	0.000-14.142	0.953	999.1	1433.0	508.0	80.8	0.959	0.959	1.005	1.000	-0.010	1.005	-0.001	-0.007	-0.39	-0.03
51	24.000	0.000-14.142	0.949	995.7	1433.0	506.1	80.8	0.954	0.954	1.004	1.000	-0.008	1.004	-0.001	-0.006	-0.35	-0.04

DATE 9-MAR-78 PROJECT NO PAIC-MOC

ARD, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARLUND AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALFA CONFIG

TC-532 740 2.996 5.00 21 SURVEY ALFAS

1602

0.00

DATE

2-22-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
2	-6.000	14.142	0.000	0.946	992.7	1433.3	504.5	80.9	0.947	1.001	1.000	-0.002	1.001	0.003	0.000	0.03	0.15
3	-5.000	14.142	0.000	0.950	996.1	1432.6	506.1	80.9	0.950	1.000	1.000	-0.000	1.000	0.002	0.001	0.05	0.14
4	-4.000	14.142	0.000	0.950	996.3	1432.6	506.2	81.0	0.948	0.999	1.000	0.003	0.999	0.003	0.001	0.04	0.17
5	-3.000	14.142	0.000	0.950	996.2	1433.9	506.6	81.0	0.949	1.000	1.000	0.001	1.000	0.004	0.003	0.01	0.21
6	-2.000	14.142	0.000	0.950	996.6	1433.9	506.6	81.0	0.949	0.999	0.999	0.002	0.999	0.004	0.000	0.03	0.21
7	-1.000	14.142	0.000	0.950	996.2	1432.8	506.3	80.8	0.947	0.997	1.000	0.005	0.997	0.005	0.001	0.03	0.27
8	0.000	14.142	0.000	0.949	995.6	1433.0	505.9	81.0	0.948	0.999	1.000	0.003	0.999	0.005	0.003	0.01	0.31
9	1.000	14.142	0.000	0.949	995.6	1434.2	506.3	81.1	0.948	1.000	1.000	0.000	1.000	0.006	-0.000	-0.02	0.36
10	2.000	14.142	0.000	0.951	997.9	1433.4	507.2	80.9	0.952	1.001	1.000	-0.001	1.001	0.007	-0.000	-0.01	0.42
11	3.000	14.142	0.000	0.951	997.7	1432.5	506.9	81.0	0.953	1.001	1.000	-0.003	1.001	0.008	0.000	0.00	0.43
12	4.000	14.142	0.000	0.951	997.7	1433.3	507.2	80.9	0.957	1.005	1.000	-0.011	1.005	0.009	-0.000	-0.02	0.50
13	5.000	14.142	0.000	0.952	998.3	1432.6	507.3	80.9	0.960	1.007	0.999	-0.015	1.007	0.009	-0.000	-0.02	0.50
14	6.000	14.142	0.000	0.950	996.9	1432.5	506.5	80.9	0.961	1.009	1.000	-0.018	1.009	0.006	-0.000	-0.01	0.45
15	7.000	14.142	0.000	0.952	998.4	1432.7	507.5	80.8	0.962	1.009	1.000	-0.017	1.009	0.008	0.000	0.01	0.43
16	8.000	14.142	0.000	0.954	999.6	1432.7	508.2	80.7	0.963	1.009	1.000	-0.017	1.009	0.006	-0.000	-0.00	0.37
17	9.000	14.142	0.000	0.951	997.3	1430.2	506.0	80.7	0.956	1.004	1.000	-0.003	1.004	0.007	0.000	0.03	0.39
18	10.000	14.142	0.000	0.954	1000.1	1434.0	508.8	80.9	0.958	1.004	1.000	-0.008	1.004	0.007	0.000	0.01	0.39
19	11.000	14.142	0.000	0.950	996.2	1431.7	505.8	80.9	0.951	1.001	1.000	-0.001	1.001	0.008	0.001	0.06	0.43
20	12.000	14.142	0.000	0.952	998.6	1433.2	507.7	80.9	0.955	1.002	1.000	-0.004	1.002	0.008	0.001	0.08	0.45
21	13.000	14.142	0.000	0.946	992.7	1431.6	503.9	80.9	0.948	1.002	1.000	-0.003	1.002	0.009	0.003	0.15	0.50
22	14.000	14.142	0.000	0.949	996.1	1433.3	506.3	81.0	0.956	1.005	1.000	-0.011	1.005	0.009	0.003	0.18	0.53
23	15.000	14.142	0.000	0.954	1000.0	1433.7	508.6	81.0	0.964	1.009	1.000	-0.019	1.009	0.010	0.004	0.25	0.56
24	16.000	14.142	0.000	0.951	997.6	1433.8	507.3	81.0	0.964	1.016	1.000	-0.032	1.016	0.009	0.006	0.34	0.50
25	17.000	14.142	0.000	0.946	993.4	1432.6	504.5	81.0	0.976	1.027	1.001	-0.053	1.027	0.005	0.009	0.51	0.25
26	18.000	14.142	0.000	0.953	999.4	1434.8	508.7	81.0	1.001	1.042	1.000	-0.085	1.042	-0.002	0.011	0.62	0.11
27	19.000	14.142	0.000	0.952	997.9	1433.2	507.3	80.9	0.971	1.018	1.000	-0.035	1.017	-0.003	0.013	0.71	0.17
28	20.000	14.142	0.000	0.949	995.4	1432.4	505.6	81.1	0.954	1.004	1.000	-0.008	1.004	-0.001	0.013	0.74	0.06
29	21.000	14.142	0.000	0.951	997.3	1434.0	507.2	81.0	0.955	1.006	1.000	-0.007	1.003	-0.000	0.013	0.75	0.00
30	22.000	14.142	0.000	0.952	996.6	1433.0	507.6	80.9	0.958	1.006	1.000	-0.011	1.005	-0.000	0.013	0.73	0.01
31	23.000	14.142	0.000	0.951	997.4	1434.1	507.3	81.0	0.956	1.004	1.000	-0.009	1.004	0.001	0.013	0.73	0.06
32	24.000	14.142	0.000	0.952	997.9	1432.2	507.0	80.8	0.959	1.006	1.000	-0.012	1.006	0.001	0.013	0.72	0.05

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARC, INC.
AEDC DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL
ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS
TC-532 758 3.000 0.00 21 1601 0.02

DATE 2-22-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	WT	Q	TT	ML	VNL/VM	PTL/PT	CPL	UT/VM	VT/VM	KT/VM	AATL	SATL
6	-0.000	0.000-14.142	1.050	1082.9	1394.4	535.7	80.7	80.7	1.049	0.999	0.998	-0.001	0.999	-0.000	0.004	0.23	-0.02
7	-5.000	0.000-14.142	1.047	1080.4	1392.2	533.8	80.7	80.7	1.045	0.999	0.999	0.002	0.999	0.000	0.005	0.29	0.01
8	-4.000	0.000-14.142	1.046	1079.6	1393.1	533.8	80.7	80.7	1.043	0.998	0.999	0.002	0.998	-0.000	0.005	0.26	-0.02
9	-3.000	0.000-14.142	1.046	1079.3	1393.2	533.6	80.7	80.7	1.042	0.997	0.999	0.004	0.997	-0.000	0.004	0.24	-0.02
12	-2.000	0.000-14.142	1.046	1079.4	1393.8	533.9	80.7	80.7	1.042	0.997	0.999	0.004	0.997	-0.001	0.004	0.24	-0.04
13	-1.000	0.000-14.142	1.046	1082.0	1393.6	535.0	80.7	80.7	1.048	0.999	0.999	0.000	0.999	-0.000	0.004	0.21	-0.03
14	0.000	0.000-14.142	1.049	1081.8	1393.3	534.9	80.6	80.6	1.049	1.000	0.998	-0.003	1.000	-0.001	0.004	0.25	-0.04
15	1.000	0.000-14.142	1.048	1081.8	1395.1	535.4	80.8	80.8	1.036	0.990	0.998	0.018	0.990	-0.001	0.001	0.65	-0.08
16	2.000	0.000-14.142	1.046	1079.3	1393.3	533.8	80.6	80.6	1.004	0.967	0.999	0.064	0.967	-0.001	-0.005	-0.30	-0.06
17	3.000	0.000-14.142	1.048	1080.7	1393.6	534.6	80.4	80.4	1.002	0.964	0.998	0.070	0.964	-0.001	-0.007	-0.39	-0.07
18	4.000	0.000-14.142	1.048	1081.4	1394.0	535.0	80.5	80.5	1.006	0.966	0.999	0.066	0.966	-0.001	-0.008	-0.46	-0.08
19	5.000	0.000-14.142	1.048	1081.3	1393.0	534.5	80.6	80.6	1.013	0.972	0.999	0.054	0.972	-0.001	-0.009	-0.50	-0.06
20	6.000	0.000-14.142	1.047	1080.6	1392.4	534.0	80.5	80.5	1.033	0.989	0.999	0.022	0.988	-0.001	-0.010	-0.59	-0.06
21	7.000	0.000-14.142	1.051	1083.3	1393.2	535.6	80.4	80.4	1.045	0.996	0.999	0.007	0.996	-0.001	-0.012	-0.67	-0.03
22	8.000	0.000-14.142	1.051	1084.0	1394.3	536.2	80.6	80.6	1.058	1.005	0.998	-0.013	1.005	-0.000	-0.012	-0.67	-0.03
23	9.000	0.000-14.142	1.051	1083.6	1393.6	535.8	80.5	80.5	1.064	1.010	0.998	-0.023	1.010	-0.001	-0.010	-0.58	-0.04
24	10.000	0.000-14.142	1.051	1083.4	1392.8	535.4	80.5	80.5	1.076	1.019	0.998	-0.041	1.019	-0.001	-0.008	-0.57	-0.06
25	11.000	0.000-14.142	1.051	1083.9	1393.1	535.8	80.5	80.5	1.065	1.026	0.998	-0.053	1.026	-0.001	-0.005	-0.26	-0.05
26	12.000	0.000-14.142	1.052	1084.8	1393.3	536.2	80.6	80.6	1.096	1.033	0.997	-0.070	1.033	-0.000	-0.000	-0.01	0.00
27	13.000	0.000-14.142	1.052	1084.9	1393.5	536.4	80.5	80.5	1.106	1.041	0.997	-0.086	1.041	0.000	0.004	0.19	0.00
28	14.000	0.000-14.142	1.049	1081.8	1391.9	536.3	80.6	80.6	1.108	1.046	0.998	-0.094	1.046	0.000	0.000	0.57	0.01
29	15.000	0.000-14.142	1.055	1087.2	1394.2	537.5	80.7	80.7	1.100	1.035	0.997	-0.073	1.035	0.001	0.007	0.39	0.05
30	16.000	0.000-14.142	1.049	1082.1	1392.5	534.7	80.6	80.6	1.017	0.975	0.998	0.048	0.975	-0.000	0.003	0.17	-0.02
31	17.000	0.000-14.142	1.052	1084.6	1392.8	536.0	80.5	80.5	1.032	0.984	0.998	0.029	0.984	-0.001	0.001	0.07	-0.04
32	18.000	0.000-14.142	1.052	1084.9	1392.2	535.8	80.7	80.7	1.037	0.988	0.999	0.023	0.988	-0.000	0.003	0.23	-0.02
34	19.000	0.000-14.142	1.052	1084.7	1394.4	535.6	80.5	80.5	1.040	0.991	0.999	0.016	0.991	0.000	0.007	0.42	0.01
36	20.000	0.000-14.142	1.051	1083.8	1393.2	535.7	80.6	80.6	1.038	0.990	0.998	0.018	0.990	-0.001	0.012	0.59	-0.01
37	21.000	0.000-14.142	1.053	1085.9	1394.2	537.0	80.7	80.7	1.060	1.005	0.998	-0.012	1.005	-0.001	0.013	0.73	-0.04
39	22.000	0.000-14.142	1.050	1082.8	1393.7	535.4	80.7	80.7	1.083	1.026	0.998	-0.053	1.026	-0.001	0.015	0.64	-0.06
40	23.000	0.000-14.142	1.052	1084.9	1394.4	536.6	80.7	80.7	1.089	1.028	0.997	-0.061	1.028	-0.001	0.017	0.86	-0.06
41	24.000	0.000-14.142	1.054	1086.1	1391.9	536.2	80.6	80.6	1.004	0.961	0.998	0.075	0.961	-0.001	0.002	0.14	-0.03

DATE 9-MAR-78 PROJECT NO PJIC-NOC

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REAL-6 ALPHA CONFIG

TC-532 759 2.499 0.00

SURVEY ALFA 1602 0.02

DATE 2-22-76

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VN	PT	Q	TT	ML	VNL/VN	PTL/PT	CPL	UT/VN	VT/VN	WT/VN	RATL	SKTL
2	-5.000	14.142	0.000	1.048	1081.1	1393.5	534.7	80.5	1.052	1.003	0.999	-0.008	1.003	0.002	0.001	0.03	0.12
3	-5.000	14.142	0.000	1.049	1082.0	1392.3	534.6	80.4	1.046	1.000	0.999	-0.002	1.000	0.001	0.001	0.06	0.07
4	-5.000	14.142	0.000	1.049	1082.3	1392.8	534.9	80.6	1.046	0.998	0.999	0.004	0.998	0.001	0.001	0.06	0.04
5	-3.000	14.142	0.000	1.050	1082.7	1394.0	535.5	80.6	1.049	1.000	0.999	-0.001	1.000	0.001	0.000	0.02	0.03
6	-3.000	14.142	0.000	1.050	1082.8	1393.8	535.5	80.5	1.045	0.996	0.998	0.006	0.996	0.001	0.001	0.04	0.04
7	-1.000	14.142	0.000	1.051	1083.3	1393.1	535.5	80.5	1.045	0.995	0.999	0.009	0.995	0.001	0.001	0.07	0.05
8	0.000	14.142	0.000	1.052	1083.6	1393.4	536.2	80.6	1.047	0.996	0.999	0.007	0.996	0.001	0.001	0.07	0.08
9	1.000	14.142	0.000	1.052	1084.8	1394.1	536.5	80.6	1.041	0.991	0.999	0.017	0.991	0.002	0.001	0.06	0.14
10	2.000	14.142	0.000	1.054	1086.2	1392.6	536.5	80.7	1.015	0.969	0.998	0.059	0.969	0.008	0.001	0.07	0.15
12	3.000	14.142	0.000	1.053	1085.6	1392.3	536.1	80.7	1.014	0.969	0.999	0.061	0.969	0.011	0.001	0.05	0.07
13	4.000	14.142	0.000	1.054	1085.4	1393.8	537.1	80.7	1.017	0.971	0.999	0.057	0.971	0.012	0.000	0.01	0.72
14	5.000	14.142	0.000	1.052	1085.0	1394.1	536.8	80.6	1.018	0.973	0.999	0.053	0.973	0.012	0.001	0.03	0.72
15	6.000	14.142	0.000	1.054	1086.4	1394.0	537.2	80.5	1.030	0.981	0.999	0.036	0.981	0.013	0.000	0.02	0.79
16	7.000	14.142	0.000	1.050	1083.2	1392.5	535.2	80.6	1.045	0.996	0.999	0.007	0.996	0.016	0.000	0.02	0.91
17	8.000	14.142	0.000	1.053	1085.7	1393.7	536.7	80.7	1.053	1.000	0.999	-0.001	0.999	0.015	0.001	0.03	0.95
19	9.000	14.142	0.000	1.052	1084.6	1395.2	535.8	80.7	1.061	1.007	0.998	-0.016	1.007	0.013	0.001	0.04	0.74
20	10.000	14.142	0.000	1.051	1083.8	1392.5	535.4	80.6	1.066	1.012	0.999	-0.025	1.012	0.010	0.001	0.03	0.59
21	11.000	14.142	0.000	1.053	1085.4	1394.4	536.9	80.5	1.079	1.020	0.998	-0.041	1.020	0.007	0.001	0.07	0.41
22	12.000	14.142	0.000	1.051	1083.6	1392.6	535.5	80.4	1.092	1.032	0.998	-0.065	1.032	0.004	0.002	0.09	0.22
23	13.000	14.142	0.000	1.053	1085.1	1393.2	536.3	80.5	1.104	1.039	0.998	-0.060	1.039	0.001	0.001	0.03	0.05
24	14.000	14.142	0.000	1.052	1083.6	1394.6	536.6	80.6	1.113	1.047	0.998	-0.095	1.047	0.005	0.002	0.12	0.25
26	15.000	14.142	0.000	1.050	1082.9	1393.7	535.5	80.6	1.068	1.014	0.997	-0.031	1.014	0.000	0.003	0.15	0.22
27	16.000	14.142	0.000	1.052	1084.2	1391.5	535.3	80.5	1.030	0.983	1.000	0.034	0.983	0.004	0.003	0.17	0.51
29	17.000	14.142	0.000	1.050	1082.7	1393.8	535.4	80.7	1.029	0.984	0.998	0.031	0.984	0.007	0.002	0.09	0.34
30	18.000	14.142	0.000	1.053	1084.9	1392.8	536.1	80.4	1.043	0.992	0.999	0.014	0.992	0.001	0.001	0.06	0.08
31	19.000	14.142	0.000	1.052	1084.7	1392.4	535.8	80.5	1.059	1.005	0.999	-0.012	1.005	0.007	0.001	0.06	0.42
33	20.000	14.142	0.000	1.050	1083.1	1392.5	535.2	80.5	1.088	1.029	0.998	-0.060	1.029	0.014	0.002	0.11	0.80
34	21.000	14.142	0.000	1.054	1085.1	1392.3	536.4	80.6	1.115	1.047	0.998	-0.095	1.046	0.020	0.002	0.09	1.09
36	22.000	14.142	0.000	1.047	1080.3	1393.7	534.3	80.6	1.020	0.979	0.998	0.039	0.979	0.002	0.002	0.14	0.11
37	23.000	14.142	0.000	1.048	1081.7	1391.8	534.2	80.7	1.020	0.977	0.999	0.044	0.977	0.003	0.002	0.11	0.17
38	24.000	14.142	0.000	1.053	1085.3	1393.1	536.3	80.6	1.016	0.971	0.999	0.057	0.971	0.003	0.002	0.10	0.17

DATE 9-MAY-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARMED AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA CONFIG

TC-512 916 3.002 2.00 21 SURVEY ALPHA 0.00

DATE 2-22-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 47

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	RATL	SATL
7	-6.000	0.000-14.142	1.052	1088.0	1406.2	541.0	84.1	1.057	1.004	0.998	-0.010	1.004	0.002	0.004	0.23	-0.09	
8	-5.000	0.000-14.142	1.051	1086.3	1404.8	540.0	84.2	1.058	1.006	0.999	-0.012	1.006	0.001	0.005	0.24	-0.07	
9	-4.000	0.000-14.142	1.050	1085.3	1405.4	539.9	84.2	1.053	1.003	0.999	-0.007	1.003	0.001	0.004	0.24	-0.07	
10	-3.000	0.000-14.142	1.050	1086.0	1406.4	540.3	84.0	1.054	1.003	0.999	-0.008	1.003	0.002	0.004	0.23	-0.10	
11	-2.000	0.000-14.142	1.049	1085.6	1405.8	539.8	84.1	1.053	1.003	0.999	-0.008	1.003	0.002	0.005	0.27	-0.10	
12	-1.000	0.000-14.142	1.049	1085.3	1405.0	539.4	84.1	1.054	1.004	1.000	-0.008	1.004	0.002	0.004	0.24	-0.10	
13	0.000	0.000-14.142	1.050	1086.6	1406.5	540.5	84.1	1.055	1.004	0.998	-0.009	1.004	0.002	0.004	0.24	-0.10	
14	1.000	0.000-14.142	1.050	1086.3	1404.6	539.7	84.1	1.054	1.003	0.999	-0.008	1.003	0.002	0.004	0.23	-0.11	
15	2.000	0.000-14.142	1.051	1087.3	1404.0	539.9	84.3	1.021	0.976	1.000	-0.008	0.976	0.002	0.003	0.17	-0.14	
16	3.000	0.000-14.142	1.052	1088.3	1406.1	541.0	84.3	1.021	0.976	0.999	-0.007	0.976	0.002	0.003	0.17	-0.12	
17	4.000	0.000-14.142	1.051	1087.4	1405.2	540.3	84.1	1.019	0.975	0.999	-0.007	0.975	0.002	0.004	0.17	-0.11	
18	5.000	0.000-14.142	1.050	1086.4	1404.0	539.4	84.2	1.023	0.979	1.000	-0.008	0.979	0.002	0.008	0.17	-0.13	
19	6.000	0.000-14.142	1.050	1086.5	1405.2	540.0	84.1	1.033	0.987	0.999	-0.025	0.987	0.002	0.009	0.17	-0.13	
20	7.000	0.000-14.142	1.051	1087.5	1405.6	540.6	84.1	1.048	0.998	0.999	-0.004	0.998	0.002	0.011	0.17	-0.10	
21	8.000	0.000-14.142	1.051	1087.3	1405.1	540.3	84.0	1.059	1.006	0.999	-0.014	1.006	0.002	0.012	0.17	-0.10	
22	9.000	0.000-14.142	1.052	1088.5	1406.0	541.1	84.2	1.064	1.012	0.999	-0.026	1.012	0.002	0.011	0.17	-0.11	
23	10.000	0.000-14.142	1.053	1088.8	1405.6	541.2	84.2	1.078	1.020	0.998	-0.041	1.020	0.002	0.009	0.17	-0.14	
24	11.000	0.000-14.142	1.052	1088.0	1404.9	540.5	84.1	1.087	1.027	0.999	-0.055	1.027	0.002	0.006	0.17	-0.10	
25	12.000	0.000-14.142	1.053	1089.3	1405.3	541.1	84.3	1.093	1.031	0.999	-0.063	1.031	0.001	0.002	0.17	-0.08	
26	13.000	0.000-14.142	1.053	1089.1	1405.2	541.1	84.2	1.106	1.041	0.998	-0.084	1.041	0.001	0.002	0.17	-0.06	
27	14.000	0.000-14.142	1.054	1089.9	1406.6	541.9	84.4	1.117	1.048	0.997	-0.099	1.048	0.001	0.007	0.17	-0.06	
28	15.000	0.000-14.142	1.053	1088.9	1406.1	541.3	84.3	1.112	1.045	0.998	-0.093	1.045	0.001	0.009	0.17	-0.05	
29	16.000	0.000-14.142	1.053	1089.1	1405.9	541.3	84.2	1.113	1.045	0.998	-0.093	1.045	0.001	0.009	0.17	-0.05	
30	17.000	0.000-14.142	1.053	1089.1	1406.6	541.5	84.5	1.127	1.050	0.999	-0.061	0.962	0.001	0.005	0.22	-0.07	
31	18.000	0.000-14.142	1.051	1087.5	1405.5	540.4	84.4	1.024	0.979	1.000	-0.041	0.980	0.002	0.004	0.25	-0.09	
32	19.000	0.000-14.142	1.051	1087.5	1405.5	540.4	84.4	1.024	0.979	1.000	-0.041	0.979	0.001	0.004	0.25	-0.09	
33	20.000	0.000-14.142	1.053	1089.1	1405.9	541.3	84.3	1.029	0.981	1.000	-0.037	0.981	0.001	0.001	0.17	-0.07	
34	21.000	0.000-14.142	1.052	1087.9	1405.8	540.7	84.3	1.043	0.994	1.000	-0.012	0.994	0.002	0.003	0.17	-0.06	
35	22.000	0.000-14.142	1.054	1090.2	1406.9	542.1	84.4	1.065	1.006	0.998	-0.019	1.006	0.002	0.004	0.22	-0.10	
36	23.000	0.000-14.142	1.053	1089.5	1405.5	541.3	84.4	1.064	1.023	0.999	-0.048	1.023	0.002	0.007	0.21	-0.09	
37	24.000	0.000-14.142	1.054	1089.6	1406.7	541.8	84.3	1.103	1.038	0.998	-0.077	1.038	0.002	0.012	0.16	-0.10	
38	25.000	0.000-14.142	1.053	1089.3	1405.8	541.4	84.3	1.049	0.996	0.998	-0.004	0.996	0.002	0.000	0.17	-0.09	

DATE 9-MAR-78 PROJECT NO PAIC-NOC

ARO, INC.

AERO DIVISION

A EVERETT CORPORATION COMPANY

PROPELLION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PAIR 8510-6 ALFA CONFIG

TC-532 917 2.997 2.00 21

SURVEY ALFAS
1602 0.00

DATE
2-22-78

AEDC PROPELLION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VN	PT	O	TT	ML	VWL/VN	PTL/PT	CPL	UT/VN	VT/VN	WT/VN	AT/L	SW/L
2	-5.000	14.142	0.000	1.049	1085.7	1405.2	535.5	84.3	1.058	1.007	0.999	-0.015	1.007	0.001	0.001	0.04	0.16
3	-5.000	14.142	0.000	1.050	1086.4	1407.0	540.4	84.5	1.059	1.006	0.999	-0.014	1.006	0.001	0.001	0.06	0.14
4	-4.000	14.142	0.000	1.050	1086.3	1406.2	540.1	84.4	1.054	1.003	0.999	-0.007	1.003	0.000	0.001	0.05	0.00
5	-3.000	14.142	0.000	1.050	1086.2	1407.1	540.5	84.2	1.056	1.005	0.999	-0.011	1.005	0.000	0.000	0.02	0.03
6	-2.000	14.142	0.000	1.050	1086.8	1405.3	540.0	84.3	1.052	1.001	0.999	-0.004	1.001	0.000	0.001	0.04	0.00
7	-1.000	14.142	0.000	1.051	1087.7	1407.0	541.1	84.4	1.051	1.000	0.999	-0.001	1.000	0.000	0.001	0.07	0.21
8	0.000	14.142	0.000	1.052	1088.5	1407.7	541.0	84.6	1.053	1.001	0.998	-0.003	1.001	0.000	0.001	0.06	0.02
9	1.000	14.142	0.000	1.053	1089.3	1407.5	541.9	84.5	1.048	0.996	0.999	0.007	0.996	0.002	0.001	0.07	0.09
10	2.000	14.142	0.000	1.053	1084.9	1406.7	541.5	84.4	1.025	0.978	0.999	0.043	0.978	0.007	0.000	0.02	0.13
11	3.000	14.142	0.000	1.054	1090.1	1407.8	542.4	84.4	1.027	0.979	0.999	0.042	0.979	0.010	0.000	0.01	0.39
12	4.000	14.142	0.000	1.054	1090.3	1406.0	541.8	84.4	1.026	0.978	1.000	0.043	0.978	0.012	0.001	-0.04	0.18
13	5.000	14.142	0.000	1.054	1090.5	1407.0	542.2	84.5	1.027	0.979	0.999	0.042	0.978	0.012	0.001	-0.08	0.07
14	6.000	14.142	0.000	1.053	1085.1	1407.3	541.8	84.4	1.038	0.988	0.999	0.023	0.984	0.013	0.001	-0.07	0.14
15	7.000	14.142	0.000	1.048	1085.3	1407.2	540.0	84.5	1.051	1.002	0.999	-0.006	1.002	0.015	0.001	-0.05	0.14
16	8.000	14.142	0.000	1.050	1086.9	1406.6	540.0	84.3	1.056	1.004	1.000	-0.009	1.004	0.014	0.001	-0.03	0.79
17	9.000	14.142	0.000	1.053	1089.3	1405.8	541.3	84.4	1.065	1.009	0.999	-0.019	1.009	0.013	0.001	-0.03	0.72
18	10.000	14.142	0.000	1.053	1089.7	1406.5	542.4	84.6	1.075	1.017	0.999	-0.035	1.017	0.010	0.000	-0.03	0.56
19	11.000	14.142	0.000	1.053	1089.8	1406.6	541.8	84.5	1.082	1.022	0.999	-0.046	1.022	0.007	0.001	0.06	0.35
20	12.000	14.142	0.000	1.053	1084.9	1407.1	541.0	84.4	1.094	1.032	0.999	-0.065	1.032	0.003	0.002	0.10	0.15
21	13.000	14.142	0.000	1.049	1085.8	1406.9	543.1	84.5	1.103	1.042	0.999	-0.085	1.042	0.001	0.000	0.01	0.05
22	14.000	14.142	0.000	1.052	1083.8	1408.3	542.0	84.5	1.113	1.047	0.997	-0.090	1.047	0.000	0.001	-0.01	0.10
23	15.000	14.142	0.000	1.051	1087.7	1407.1	541.0	84.6	1.074	1.018	0.998	-0.039	1.018	0.003	0.004	-0.20	0.15
24	16.000	14.142	0.000	1.053	1089.5	1406.9	541.8	84.4	1.039	0.989	0.999	0.022	0.989	0.008	0.008	-0.11	0.47
25	17.000	14.142	0.000	1.054	1090.1	1408.0	542.5	84.5	1.036	0.986	0.999	0.026	0.986	0.007	0.001	0.04	0.44
26	18.000	14.142	0.000	1.054	1089.9	1407.3	542.1	84.5	1.049	0.996	0.999	0.005	0.996	0.001	0.003	0.20	0.06
27	19.000	14.142	0.000	1.051	1087.4	1406.7	540.8	84.5	1.069	1.014	0.999	-0.030	1.014	0.008	0.005	0.27	0.16
28	20.000	14.142	0.000	1.053	1089.4	1406.7	541.0	84.6	1.093	1.031	0.999	-0.063	1.031	0.014	0.005	0.32	0.10
29	21.000	14.142	0.000	1.050	1087.3	1407.0	540.8	84.6	1.117	1.051	0.998	-0.105	1.051	0.020	0.026	0.32	0.17
30	22.000	14.142	0.000	1.053	1089.7	1406.6	541.7	84.5	1.089	1.028	0.998	-0.058	1.028	0.009	0.005	0.34	0.13
31	23.000	14.142	0.000	1.050	1086.2	1406.2	540.1	84.3	1.034	0.998	1.000	0.023	0.998	0.003	0.003	0.31	0.18
32	24.000	14.142	0.000	1.053	1089.3	1406.3	541.5	84.4	1.030	0.982	0.999	0.035	0.982	0.002	0.004	0.23	0.13

DATE 9-MAR-78 PROJECT NO P41C-NOC

ASO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

IC-512 932 3.001 5.00

SURVEY ALFAS
1601 0.00

DATE
2-22-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UT/VM	VT/VM	WT/VM	ATL	SWTL
14	-5.000	0.000-14.142	1.054	1090.8	1408.7	542.7	85.2	85.1	1.059	1.004	0.999	-0.009	1.004	-0.001	0.004	0.22	-0.05
15	-5.000	0.000-14.142	1.056	1087.8	1408.9	541.5	85.1	85.1	1.056	1.005	0.999	-0.011	1.005	-0.001	0.005	0.26	-0.04
16	-4.000	0.000-14.142	1.049	1086.4	1408.8	540.8	85.2	85.2	1.053	1.003	1.000	-0.007	1.003	-0.001	0.004	0.22	-0.05
17	-3.000	0.000-14.142	1.049	1085.8	1408.6	541.3	85.3	85.3	1.052	1.002	0.998	-0.006	1.002	-0.001	0.004	0.23	-0.07
18	-2.000	0.000-14.142	1.048	1085.4	1408.4	540.2	85.0	85.0	1.051	1.003	1.000	-0.005	1.003	-0.001	0.004	0.23	-0.04
19	-1.000	0.000-14.142	1.047	1085.2	1408.3	540.1	85.1	85.1	1.052	1.004	0.999	-0.008	1.004	-0.001	0.004	0.23	-0.07
20	0.000	0.000-14.142	1.049	1086.7	1407.8	540.9	85.2	85.2	1.055	1.004	1.000	-0.008	1.004	-0.002	0.004	0.21	-0.09
21	1.000	0.000-14.142	1.049	1087.0	1410.1	541.5	85.3	85.3	1.055	1.005	0.998	-0.012	1.005	-0.002	0.003	0.17	-0.10
22	2.000	0.000-14.142	1.051	1088.7	1408.4	541.7	85.3	85.3	1.033	0.985	0.999	0.028	0.985	-0.002	-0.002	-0.14	-0.13
23	3.000	0.000-14.142	1.050	1087.4	1408.9	541.3	85.2	85.2	1.022	0.978	0.999	0.043	0.978	-0.002	-0.006	-0.37	-0.10
24	4.000	0.000-14.142	1.050	1087.5	1410.4	542.0	85.2	85.2	1.020	0.977	0.999	0.045	0.977	-0.002	-0.008	-0.46	-0.11
25	5.000	0.000-14.142	1.049	1086.3	1408.5	540.7	85.1	85.1	1.020	0.977	0.999	0.034	0.977	-0.001	-0.008	-0.46	-0.09
26	6.000	0.000-14.142	1.051	1086.9	1408.6	542.2	85.3	85.3	1.028	0.981	0.999	0.036	0.981	-0.002	-0.009	-0.52	-0.10
27	7.000	0.000-14.142	1.051	1088.6	1410.9	542.6	85.3	85.3	1.043	0.993	0.999	0.011	0.993	-0.001	-0.010	-0.60	-0.07
28	8.000	0.000-14.142	1.052	1088.9	1408.0	541.7	85.1	85.1	1.055	1.003	0.999	-0.006	1.002	-0.001	-0.012	-0.68	-0.05
29	9.000	0.000-14.142	1.052	1089.3	1408.5	542.4	85.2	85.2	1.065	1.010	0.999	-0.020	1.010	-0.001	-0.012	-0.70	-0.08
30	10.000	0.000-14.142	1.053	1089.9	1408.0	542.5	85.2	85.2	1.074	1.016	0.999	-0.034	1.016	-0.001	-0.011	-0.60	-0.08
31	11.000	0.000-14.142	1.051	1083.4	1408.0	541.4	85.2	85.2	1.083	1.025	0.999	-0.050	1.025	-0.001	-0.006	-0.47	-0.07
32	12.000	0.000-14.142	1.052	1089.1	1410.0	542.4	85.3	85.3	1.093	1.032	0.998	-0.065	1.032	-0.001	-0.004	-0.21	-0.04
33	13.000	0.000-14.142	1.052	1089.2	1407.7	541.6	85.3	85.3	1.104	1.040	0.999	-0.082	1.040	-0.001	-0.001	-0.05	-0.04
35	14.000	0.000-14.142	1.053	1089.7	1407.1	541.7	85.0	85.0	1.113	1.046	0.999	-0.093	1.046	-0.001	0.004	0.23	-0.04
37	15.000	0.000-14.142	1.052	1089.6	1406.6	541.4	85.3	85.3	1.032	0.984	0.998	0.029	0.984	0.000	-0.006	-0.48	0.03
39	16.000	0.000-14.142	1.048	1085.7	1408.3	539.6	85.0	85.0	0.979	0.945	0.999	0.108	0.945	-0.001	-0.011	-0.70	-0.03
43	17.000	0.000-14.142	1.051	1084.0	1407.6	539.3	84.9	84.9	0.991	0.953	1.000	0.095	0.953	-0.001	-0.011	-0.68	-0.03
45	18.000	0.000-14.142	1.051	1086.0	1403.9	539.9	84.7	84.7	1.009	0.967	0.999	0.094	0.967	-0.001	-0.011	-0.64	-0.04
47	19.000	0.000-14.142	1.053	1080.0	1402.8	540.3	84.9	84.9	1.031	0.983	0.999	0.034	0.983	-0.001	-0.011	-0.65	-0.01
48	20.000	0.000-14.142	1.055	1091.1	1402.7	540.7	84.8	84.8	1.047	0.994	0.999	0.011	0.994	-0.001	-0.010	-0.58	-0.02
49	21.000	0.000-14.142	1.054	1090.7	1402.1	539.6	84.7	84.7	1.061	1.005	0.999	-0.011	1.005	-0.001	-0.008	-0.43	-0.05
50	22.000	0.000-14.142	1.054	1090.6	1394.6	534.8	84.6	84.6	1.077	1.018	0.999	-0.038	1.018	-0.001	-0.004	-0.24	-0.03
51	23.000	0.000-14.142	1.053	1089.8	1397.9	538.4	84.6	84.6	1.095	1.032	0.998	-0.067	1.032	-0.000	0.000	0.02	-0.01
54	24.000	0.000-14.142	1.052	1088.6	1398.2	537.9	84.7	84.7	1.112	1.046	0.997	-0.096	1.046	-0.000	0.006	0.32	-0.03

DATE 9-MAR-78 PROJECT NO P41C-NOC

APCA, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARVOLD AIR FORCE STATION, TENNESSEE

TEST PART MEXICO-0 ALPHA CONFIG 21

TC-532 933 2.969 5.00 SURVEY ALFAS 1602 0.00

AEDC PROPULSION WIND TUNNEL
TPANSONIC 4T

DATE
2-22-78

POINT	XT	YT	ZT	M	VM	PT	O	TT	ML	VWL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
3	-6.000	14.142	0.000	1.050	1026.8	1391.5	534.8	84.2	1.058	1.006	0.999	-0.013	1.006	0.002	0.001	0.06	0.10
4	-5.000	14.142	0.000	1.050	1086.9	1393.2	535.4	84.3	1.058	1.006	0.999	-0.013	1.006	0.001	0.001	0.05	0.07
5	-4.000	14.142	0.000	1.050	1087.1	1391.5	534.8	84.5	1.055	1.003	1.000	-0.007	1.003	0.001	0.001	0.04	0.04
6	-3.000	14.142	0.000	1.051	1027.5	1392.4	535.4	84.3	1.056	1.004	0.999	-0.010	1.004	0.001	0.000	0.02	0.03
7	-2.000	14.142	0.000	1.052	1088.4	1391.7	535.6	84.2	1.052	1.002	0.999	-0.006	1.002	0.001	0.000	0.01	0.04
8	-1.000	14.142	0.000	1.052	1088.5	1391.2	535.4	84.2	1.052	1.000	0.999	-0.002	1.000	0.001	0.001	0.04	0.04
9	0.000	14.142	0.000	1.053	1089.5	1391.1	535.8	84.3	1.054	1.000	0.999	-0.002	1.000	0.001	0.001	0.06	0.05
10	1.000	14.142	0.000	1.054	1089.3	1390.2	535.5	84.0	1.051	0.998	0.999	0.003	0.998	0.001	0.001	0.05	0.04
11	2.000	14.142	0.000	1.053	1038.1	1390.5	535.5	84.1	1.026	0.979	0.999	0.042	0.979	0.007	-0.000	-0.00	0.11
12	3.000	14.142	0.000	1.054	1089.5	1390.1	535.5	84.1	1.025	0.978	0.999	0.044	0.977	0.011	-0.000	-0.02	0.05
13	4.000	14.142	0.000	1.052	1084.4	1390.0	534.8	84.4	1.020	0.975	0.999	0.049	0.975	0.012	-0.002	-0.09	0.09
14	5.000	14.142	0.000	1.053	1089.5	1390.4	535.5	84.4	1.026	0.978	0.999	0.042	0.978	0.012	-0.002	-0.12	0.12
15	6.000	14.142	0.000	1.051	1087.2	1389.3	534.2	84.1	1.038	0.990	0.999	0.020	0.990	0.014	-0.002	-0.11	0.19
16	7.000	14.142	0.000	1.052	1088.2	1388.8	534.3	84.4	1.048	0.997	1.000	0.006	0.997	0.015	-0.001	-0.08	0.27
17	8.000	14.142	0.000	1.051	1087.7	1388.9	534.2	84.3	1.057	1.005	0.999	-0.010	1.004	0.015	-0.001	-0.04	0.36
18	9.000	14.142	0.000	1.053	1089.4	1389.2	535.0	84.3	1.064	1.008	0.999	-0.018	1.006	0.013	-0.001	-0.03	0.74
19	10.000	14.142	0.000	1.050	1086.1	1389.9	534.0	84.0	1.073	1.018	0.999	-0.037	1.018	0.010	0.001	0.06	0.58
20	11.000	14.142	0.000	1.049	1085.8	1394.7	535.7	84.0	1.083	1.026	0.999	-0.053	1.026	0.007	0.002	0.10	0.40
21	12.000	14.142	0.000	1.051	1087.8	1401.6	539.1	84.3	1.094	1.033	0.998	-0.068	1.033	0.003	0.002	0.14	0.18
22	13.000	14.142	0.000	1.051	1087.3	1404.4	539.9	84.3	1.100	1.038	0.999	-0.076	1.038	-0.000	0.002	0.09	-0.01
23	14.000	14.142	0.000	1.053	1089.0	1406.2	541.3	84.4	1.108	1.042	0.998	-0.085	1.042	-0.003	0.001	0.05	-0.16
24	15.000	14.142	0.000	1.053	1089.4	1406.9	541.6	84.7	1.025	0.978	0.999	0.042	0.978	0.015	-0.002	-0.14	0.98
25	16.000	14.142	0.000	1.051	1087.3	1407.8	541.2	84.4	1.015	0.972	0.999	0.055	0.972	0.017	0.002	0.13	0.98
26	17.000	14.142	0.000	1.053	1089.9	1408.5	542.4	84.8	1.028	0.980	0.999	0.038	0.980	0.013	0.006	0.37	0.72
27	18.000	14.142	0.000	1.051	1087.7	1407.1	541.3	84.7	1.051	1.000	0.999	-0.002	1.000	0.006	0.010	0.55	0.35
28	19.000	14.142	0.000	1.054	1090.8	1409.0	543.0	84.8	1.087	1.025	0.998	-0.052	1.025	-0.002	0.013	0.74	-0.10
29	20.000	14.142	0.000	1.052	1088.6	1408.4	541.6	84.9	1.119	1.052	0.998	-0.105	1.052	-0.011	0.017	0.95	-0.01
30	21.000	14.142	0.000	1.054	1090.3	1409.3	542.4	84.9	1.143	1.068	0.997	-0.138	1.068	-0.020	0.021	1.13	-1.13
31	22.000	14.142	0.000	1.054	1090.3	1408.7	542.0	84.9	1.111	1.044	0.995	-0.093	1.044	-0.009	0.019	1.04	-0.88
32	23.000	14.142	0.000	1.054	1090.2	1408.1	542.4	84.7	1.071	1.014	0.999	-0.029	1.014	0.001	0.019	1.05	0.07
33	24.000	14.142	0.000	1.052	1089.0	1407.9	541.7	85.0	1.047	0.996	0.999	0.007	0.996	0.004	0.015	0.86	0.24

DATE 8-MAR-78 PROJECT NO P41C-N0C
SRO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA

TC-532 439 3.000 0.00

CONFIG 22 SURVEY ALFAS
1601 0.02

DATE
2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
7	-6.000	0.000-14.142	0.925	976.4	1454.4	501.2	83.3	0.929	1.004	1.000	1.000	-0.007	1.004	-0.001	0.006	0.35	-0.03
8	-5.000	0.000-14.142	0.925	976.1	1454.3	501.0	83.3	0.930	1.005	1.000	1.000	-0.009	1.005	-0.001	0.006	0.33	-0.04
9	-4.000	0.000-14.142	0.924	975.1	1456.2	501.0	83.4	0.929	1.005	1.000	1.000	-0.011	1.005	-0.001	0.005	0.27	-0.03
10	-3.000	0.000-14.142	0.923	974.8	1455.9	500.7	83.3	0.925	1.002	0.999	1.000	-0.005	1.002	-0.001	0.005	0.26	-0.04
11	-2.000	0.000-14.142	0.923	974.8	1454.4	500.3	83.2	0.928	1.004	0.999	1.000	-0.009	1.004	-0.001	0.004	0.23	-0.04
12	-1.000	0.000-14.142	0.921	973.0	1454.4	499.2	83.3	0.926	1.004	0.999	1.000	-0.009	1.004	-0.001	0.003	0.18	-0.05
13	0.000	0.000-14.142	0.924	975.1	1452.3	499.7	83.2	0.928	1.004	1.000	1.000	-0.007	1.004	-0.001	0.002	0.13	-0.04
14	1.000	0.000-14.142	0.926	976.7	1453.3	501.1	83.1	0.931	1.005	1.000	1.000	-0.010	1.005	-0.001	0.002	0.09	-0.04
15	2.000	0.000-14.142	0.924	975.3	1454.5	500.6	83.2	0.928	1.004	0.999	1.000	-0.009	1.004	-0.001	0.001	0.04	-0.04
16	3.000	0.000-14.142	0.925	976.4	1453.2	500.8	83.3	0.936	1.010	1.001	1.001	-0.018	1.010	-0.001	-0.000	-0.02	-0.04
17	4.000	0.000-14.142	0.923	974.6	1453.4	499.8	83.3	0.933	1.009	1.000	1.000	-0.017	1.009	-0.001	-0.001	-0.05	-0.04
18	5.000	0.000-14.142	0.922	973.4	1454.2	499.4	83.2	0.934	1.011	1.000	1.000	-0.023	1.011	-0.001	-0.001	-0.04	-0.04
19	6.000	0.000-14.142	0.925	976.6	1455.4	501.6	83.3	0.940	1.013	0.999	1.000	-0.028	1.013	-0.001	-0.000	-0.02	-0.05
20	7.000	0.000-14.142	0.923	974.2	1454.0	499.8	83.3	0.938	1.014	1.000	1.000	-0.028	1.014	-0.001	-0.000	-0.02	-0.03
21	8.000	0.000-14.142	0.921	973.0	1453.9	499.0	83.3	0.935	1.013	1.000	1.000	-0.026	1.013	-0.000	0.000	0.01	-0.03
22	9.000	0.000-14.142	0.921	973.1	1453.2	498.9	83.3	0.934	1.011	1.000	1.000	-0.023	1.011	-0.000	0.001	0.04	-0.02
23	10.000	0.000-14.142	0.926	977.1	1453.4	501.3	83.2	0.937	1.010	1.000	1.000	-0.020	1.010	-0.000	0.001	0.05	-0.02
24	11.000	0.000-14.142	0.927	978.1	1454.3	502.1	83.3	0.939	1.011	1.000	1.000	-0.022	1.011	-0.001	0.001	0.05	-0.05
25	12.000	0.000-14.142	0.926	977.1	1453.2	501.1	83.4	0.937	1.011	1.000	1.000	-0.022	1.011	-0.001	0.001	0.07	-0.04
26	13.000	0.000-14.142	0.928	979.1	1453.0	502.3	83.2	0.938	1.009	1.000	1.000	-0.019	1.009	-0.000	0.002	0.12	-0.01
27	14.000	0.000-14.142	0.924	975.9	1455.6	501.2	83.4	0.937	1.012	0.999	1.000	-0.025	1.012	-0.000	0.002	0.14	-0.02
29	15.000	0.000-14.142	0.925	976.7	1455.7	501.6	83.6	0.941	1.015	1.000	1.000	-0.030	1.015	-0.000	0.004	0.22	-0.01
31	16.000	0.000-14.142	0.924	975.9	1455.1	501.0	83.5	0.940	1.014	1.000	1.000	-0.028	1.014	-0.000	0.005	0.30	-0.01
32	17.000	0.000-14.142	0.929	980.4	1457.3	504.4	83.4	0.948	1.017	0.999	1.000	-0.036	1.017	-0.000	0.006	0.36	-0.01
34	18.000	0.000-14.142	0.928	978.9	1456.1	503.1	83.6	0.942	1.013	0.999	1.000	-0.027	1.013	-0.001	0.007	0.42	-0.03
37	19.000	0.000-14.142	0.926	978.2	1456.0	502.5	83.9	0.939	1.012	1.000	1.000	-0.022	1.012	-0.000	0.008	0.44	-0.02
40	20.000	0.000-14.142	0.923	974.8	1457.5	501.0	83.9	0.933	1.009	1.000	1.000	-0.019	1.009	-0.000	0.008	0.45	-0.03
42	21.000	0.000-14.142	0.926	978.1	1456.7	502.7	83.9	0.936	1.009	0.999	1.000	-0.019	1.009	-0.001	0.008	0.45	-0.03
43	22.000	0.000-14.142	0.925	977.0	1455.0	501.5	83.8	0.938	1.012	1.000	1.000	-0.022	1.012	-0.001	0.008	0.45	-0.03
44	23.000	0.000-14.142	0.928	979.6	1456.5	503.6	83.6	0.938	1.009	1.000	1.000	-0.019	1.009	-0.001	0.008	0.47	-0.05
45	24.000	0.000-14.142	0.928	979.7	1454.3	502.9	83.6	0.940	1.010	1.000	1.000	-0.020	1.010	-0.001	0.009	0.49	-0.06

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLO AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 440 2.997 0.00 22

SURVEY ALFAS
1602 0.01

DATE
2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	NL	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
2	-6.000	14.142	0.000	0.923	975.3	1456.6	500.9	84.0	0.926	1.003	1.000	-0.006	1.003	0.003	0.004	0.22	0.19
3	-5.000	14.142	0.000	0.922	974.4	1456.1	500.2	84.0	0.924	1.002	1.001	-0.003	1.002	0.003	0.004	0.20	0.19
4	-4.000	14.142	0.000	0.922	973.9	1456.0	500.0	83.8	0.923	1.001	1.001	-0.002	1.001	0.004	0.003	0.19	0.22
5	-3.000	14.142	0.000	0.924	976.3	1457.6	501.8	84.1	0.926	1.002	1.000	-0.003	1.002	0.004	0.003	0.18	0.22
6	-2.000	14.142	0.000	0.924	975.7	1456.8	501.3	84.0	0.925	1.001	1.000	-0.001	1.001	0.004	0.004	0.20	0.24
7	-1.000	14.142	0.000	0.923	975.4	1456.6	500.9	84.1	0.925	1.001	1.000	-0.002	1.001	0.005	0.003	0.18	0.29
8	0.000	14.142	0.000	0.926	977.5	1456.8	502.3	83.9	0.925	1.000	1.000	0.001	1.000	0.005	0.003	0.18	0.30
9	1.000	14.142	0.000	0.926	977.9	1456.8	502.5	84.0	0.931	1.005	1.000	-0.009	1.005	0.007	0.003	0.17	0.38
10	2.000	14.142	0.000	0.926	977.7	1456.8	502.4	84.0	0.930	1.004	1.000	-0.007	1.004	0.007	0.003	0.16	0.40
11	3.000	14.142	0.000	0.926	978.2	1456.9	502.7	84.1	0.932	1.005	1.000	-0.010	1.005	0.008	0.003	0.18	0.44
12	4.000	14.142	0.000	0.923	975.6	1457.0	501.1	84.2	0.932	1.008	1.001	-0.014	1.008	0.008	0.003	0.15	0.47
13	5.000	14.142	0.000	0.923	975.3	1456.0	500.7	84.0	0.932	1.009	1.001	-0.015	1.009	0.008	0.003	0.17	0.46
14	6.000	14.142	0.000	0.926	977.4	1456.5	502.1	84.0	0.939	1.012	1.001	-0.023	1.012	0.008	0.002	0.14	0.45
15	7.000	14.142	0.000	0.924	976.0	1456.7	501.3	84.0	0.934	1.009	1.000	-0.018	1.009	0.007	0.003	0.14	0.42
16	8.000	14.142	0.000	0.925	976.7	1456.0	501.6	84.0	0.935	1.009	1.000	-0.018	1.009	0.007	0.003	0.14	0.39
17	9.000	14.142	0.000	0.926	977.8	1457.0	502.5	84.0	0.935	1.008	1.000	-0.016	1.008	0.006	0.002	0.14	0.37
18	10.000	14.142	0.000	0.927	979.3	1457.0	503.3	84.1	0.936	1.008	1.000	-0.016	1.008	0.006	0.002	0.13	0.36
19	11.000	14.142	0.000	0.929	980.3	1456.6	503.7	84.2	0.937	1.008	1.000	-0.014	1.008	0.006	0.002	0.12	0.35
20	12.000	14.142	0.000	0.927	978.8	1457.0	503.0	84.1	0.935	1.008	1.000	-0.015	1.008	0.006	0.002	0.13	0.34
21	13.000	14.142	0.000	0.929	980.6	1457.0	504.1	84.1	0.939	1.009	1.000	-0.019	1.009	0.006	0.002	0.11	0.32
22	14.000	14.142	0.000	0.928	979.4	1458.2	503.9	84.1	0.939	1.011	0.999	-0.022	1.011	0.005	0.002	0.09	0.30
23	15.000	14.142	0.000	0.928	979.4	1457.5	503.6	84.1	0.945	1.016	1.000	-0.032	1.016	0.005	0.001	0.08	0.26
24	16.000	14.142	0.000	0.927	978.5	1456.9	502.9	84.1	0.946	1.018	1.000	-0.035	1.018	0.003	0.001	0.01	0.15
25	17.000	14.142	0.000	0.926	978.0	1457.7	502.9	84.0	0.945	1.018	1.000	-0.035	1.018	0.000	0.000	0.03	0.02
26	18.000	14.142	0.000	0.926	977.9	1457.2	502.7	84.0	0.944	1.016	1.001	-0.032	1.016	-0.001	0.001	0.03	-0.04
27	19.000	14.142	0.000	0.930	981.2	1457.5	504.6	84.1	0.941	1.010	1.000	-0.020	1.010	-0.001	0.000	0.02	-0.04
28	20.000	14.142	0.000	0.927	979.2	1456.9	503.2	84.2	0.938	1.009	1.000	-0.019	1.009	-0.001	0.000	0.00	-0.04
29	21.000	14.142	0.000	0.929	980.9	1456.8	504.1	84.3	0.937	1.007	1.000	-0.015	1.007	-0.000	0.000	0.00	-0.01
33	22.000	14.142	0.000	0.925	976.7	1457.1	501.9	84.1	0.933	1.008	1.000	-0.015	1.008	-0.000	-0.000	-0.02	-0.01
34	23.000	14.142	0.000	0.928	979.7	1457.3	503.6	84.3	0.936	1.008	1.000	-0.015	1.008	-0.000	-0.000	-0.01	-0.01
37	24.000	14.142	0.000	0.927	979.2	1458.0	503.6	84.2	0.936	1.008	1.000	-0.017	1.008	-0.000	-0.001	-0.04	-0.02

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNDT AIR FORCE STATION, TENNESSEE

TEST PART RX10-6 ALPHA CONFIG

TC-532 453 2.995 2.00 22

SURVEY ALFAS
1601 0.02

DATE
2-20-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
8	-6.000	0.000-14.142	0.922	0.922	975.8	1462.2	502.3	85.7	0.927	1.005	1.000	-0.009	1.005	-0.000	0.006	0.32	-0.01
9	-5.000	0.000-14.142	0.921	0.921	975.2	1462.4	501.9	85.8	0.925	1.003	0.999	-0.007	1.003	-0.001	0.006	0.31	-0.03
12	-4.000	0.000-14.142	0.920	0.920	974.6	1463.8	501.9	85.0	0.924	1.003	1.000	-0.007	1.003	0.000	0.005	0.26	0.00
13	-3.000	0.000-14.142	0.923	0.923	976.9	1463.1	503.2	85.8	0.925	1.002	1.000	-0.004	1.002	-0.000	0.005	0.26	-0.01
14	-2.000	0.000-14.142	0.923	0.923	976.5	1463.4	503.0	85.9	0.926	1.003	1.000	-0.006	1.003	-0.000	0.004	0.24	-0.02
15	-1.000	0.000-14.142	0.925	0.925	978.8	1464.2	504.5	85.0	0.929	1.004	1.000	-0.008	1.004	-0.000	0.003	0.17	-0.01
16	0.000	0.000-14.142	0.923	0.923	977.3	1464.4	503.7	85.0	0.927	1.004	0.999	-0.008	1.004	-0.000	0.002	0.12	-0.02
17	1.000	0.000-14.142	0.923	0.923	976.9	1462.9	502.9	85.1	0.927	1.004	0.999	-0.009	1.005	-0.001	0.001	0.07	-0.04
18	2.000	0.000-14.142	0.922	0.922	975.8	1463.1	502.4	85.0	0.926	1.004	1.000	-0.009	1.004	-0.000	0.001	0.05	-0.02
19	3.000	0.000-14.142	0.922	0.922	976.5	1464.4	503.2	85.1	0.929	1.006	1.000	-0.013	1.006	-0.000	0.000	0.03	-0.03
20	4.000	0.000-14.142	0.922	0.922	976.0	1464.2	502.9	85.0	0.928	1.006	0.999	-0.013	1.006	-0.000	-0.000	-0.02	-0.02
21	5.000	0.000-14.142	0.924	0.924	977.7	1463.1	503.6	85.9	0.934	1.010	1.000	-0.019	1.010	0.000	-0.001	-0.03	0.00
22	6.000	0.000-14.142	0.923	0.923	976.9	1464.8	503.6	85.0	0.935	1.011	1.000	-0.023	1.011	-0.000	-0.001	-0.05	-0.01
23	7.000	0.000-14.142	0.926	0.926	979.8	1464.3	505.2	86.0	0.938	1.011	0.999	-0.023	1.011	-0.000	-0.001	-0.03	-0.01
24	8.000	0.000-14.142	0.928	0.928	981.7	1464.0	506.1	85.1	0.940	1.011	1.000	-0.021	1.011	0.000	-0.000	-0.02	0.01
25	9.000	0.000-14.142	0.928	0.928	981.8	1464.7	506.5	86.0	0.939	1.010	0.999	-0.021	1.010	0.000	-0.000	-0.01	0.01
26	10.000	0.000-14.142	0.927	0.927	980.7	1465.1	505.9	86.1	0.937	1.009	0.999	-0.019	1.009	-0.000	-0.001	-0.04	-0.01
27	11.000	0.000-14.142	0.927	0.927	980.2	1462.4	504.8	85.0	0.934	1.007	1.001	-0.012	1.007	0.000	-0.000	-0.02	0.00
28	12.000	0.000-14.142	0.927	0.927	980.7	1462.5	505.0	85.1	0.932	1.005	1.000	-0.009	1.005	-0.000	-0.000	-0.02	-0.00
29	13.000	0.000-14.142	0.926	0.926	979.5	1464.6	505.1	86.0	0.933	1.006	1.000	-0.012	1.006	0.000	-0.000	-0.02	0.01
30	14.000	0.000-14.142	0.927	0.927	980.5	1463.6	505.3	85.0	0.934	1.006	1.000	-0.013	1.006	0.000	-0.000	-0.00	0.01
33	15.000	0.000-14.142	0.927	0.927	980.8	1465.0	506.0	86.0	0.937	1.009	0.999	-0.018	1.009	0.000	0.000	0.01	0.02
35	16.000	0.000-14.142	0.927	0.927	980.2	1463.8	505.2	86.0	0.936	1.009	1.000	-0.018	1.009	0.000	0.001	0.06	0.03
37	17.000	0.000-14.142	0.925	0.925	979.0	1464.3	504.7	86.0	0.933	1.007	0.999	-0.016	1.007	0.000	0.002	0.04	0.02
40	18.000	0.000-14.142	0.927	0.927	980.3	1464.5	505.4	86.2	0.937	1.009	1.000	-0.019	1.009	0.000	0.002	0.12	0.01
42	19.000	0.000-14.142	0.929	0.929	982.3	1464.1	506.6	86.0	0.937	1.007	0.999	-0.015	1.007	0.000	0.003	0.15	0.02
45	20.000	0.000-14.142	0.922	0.922	976.2	1464.0	503.0	86.0	0.929	1.006	1.000	-0.013	1.006	-0.000	0.000	0.15	-0.00
46	21.000	0.000-14.142	0.923	0.923	976.8	1464.8	503.5	86.0	0.933	1.010	0.999	-0.021	1.010	0.000	0.003	0.18	0.01
47	22.000	0.000-14.142	0.926	0.926	980.0	1462.6	504.9	86.2	0.933	1.006	1.001	-0.011	1.006	0.000	0.000	0.19	0.00
50	23.000	0.000-14.142	0.927	0.927	980.3	1462.8	504.9	86.1	0.935	1.008	1.000	-0.015	1.008	-0.000	0.004	0.21	-0.01
51	24.000	0.000-14.142	0.928	0.928	981.4	1463.1	505.6	86.1	0.936	1.007	1.000	-0.014	1.007	0.000	0.004	0.25	0.00

DATE 8-MAR-78 PROJECT NO P4IC-NOC

ARG, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

TC-532 454 3.001 2.00 22 1602 0.01

DATE 2-20-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 41

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SPTL
3	-2.000	14.142	0.000	0.924	978.1	1463.9	504.1	85.8	0.927	1.002	1.000	-0.005	1.002	0.003	0.004	0.26	0.17
4	-5.000	14.142	0.000	0.924	977.4	1452.8	503.2	86.0	0.926	1.002	1.001	-0.003	1.002	0.003	0.004	0.21	0.19
5	-3.000	14.142	0.000	0.924	977.5	1464.0	503.7	86.0	0.925	1.001	1.000	-0.002	1.001	0.004	0.004	0.23	0.22
6	-2.000	14.142	0.000	0.927	980.6	1463.8	505.4	86.1	0.929	1.002	1.001	-0.002	1.002	0.004	0.004	0.22	0.22
7	-2.000	14.142	0.000	0.927	980.7	1464.7	505.7	86.3	0.928	1.001	1.000	-0.003	1.001	0.004	0.004	0.20	0.25
8	-1.000	14.142	0.000	0.926	980.1	1463.9	505.1	86.1	0.926	1.000	1.000	-0.000	1.000	0.005	0.003	0.20	0.29
9	0.000	14.142	0.000	0.926	979.4	1463.8	504.8	86.0	0.926	1.000	1.000	-0.001	1.000	0.006	0.004	0.21	0.32
10	1.000	14.142	0.000	0.925	978.6	1464.3	504.4	86.0	0.927	1.002	1.000	-0.004	1.002	0.007	0.003	0.19	0.38
11	2.000	14.142	0.000	0.923	977.3	1462.5	503.1	86.0	0.927	1.003	1.001	-0.005	1.003	0.008	0.003	0.17	0.44
12	3.000	14.142	0.000	0.924	977.8	1464.0	503.9	86.0	0.929	1.005	1.000	-0.009	1.005	0.008	0.003	0.17	0.47
13	4.000	14.142	0.000	0.924	977.8	1464.0	503.9	86.0	0.931	1.006	1.000	-0.013	1.006	0.008	0.003	0.18	0.46
14	5.000	14.142	0.000	0.924	978.2	1464.3	504.1	86.2	0.933	1.008	1.000	-0.016	1.008	0.008	0.003	0.15	0.45
15	6.000	14.142	0.000	0.925	979.2	1464.1	504.5	86.3	0.934	1.008	0.999	-0.018	1.008	0.008	0.003	0.16	0.44
16	7.000	14.142	0.000	0.926	979.5	1463.9	504.7	86.3	0.935	1.009	1.000	-0.019	1.009	0.007	0.003	0.16	0.42
17	8.000	14.142	0.000	0.927	980.9	1464.8	506.0	86.0	0.937	1.009	1.000	-0.018	1.009	0.007	0.003	0.16	0.41
18	9.000	14.142	0.000	0.928	981.9	1464.3	505.3	86.2	0.938	1.009	1.000	-0.017	1.009	0.007	0.003	0.15	0.37
19	10.000	14.142	0.000	0.927	981.1	1464.9	506.1	86.1	0.937	1.009	1.000	-0.017	1.009	0.006	0.003	0.16	0.35
20	11.000	14.142	0.000	0.929	982.1	1464.4	505.6	86.0	0.937	1.007	1.000	-0.015	1.007	0.006	0.003	0.17	0.35
21	12.000	14.142	0.000	0.927	980.3	1462.6	504.9	86.0	0.935	1.008	1.001	-0.014	1.008	0.006	0.004	0.21	0.35
22	13.000	14.142	0.000	0.926	979.9	1464.3	505.3	85.9	0.934	1.007	0.999	-0.015	1.007	0.006	0.004	0.22	0.32
23	14.000	14.142	0.000	0.929	982.3	1463.6	506.4	86.0	0.940	1.011	1.000	-0.021	1.011	0.006	0.004	0.25	0.42
24	15.000	14.142	0.000	0.928	981.9	1463.5	506.0	86.3	0.943	1.014	1.000	-0.027	1.014	0.005	0.005	0.26	0.30
26	16.000	14.142	0.000	0.926	980.3	1463.6	505.1	86.3	0.946	1.018	1.001	-0.034	1.018	0.004	0.005	0.30	0.20
27	17.000	14.142	0.000	0.926	979.8	1463.3	504.7	86.2	0.942	1.015	1.000	-0.029	1.015	0.002	0.006	0.33	0.09
28	18.000	14.142	0.000	0.928	981.4	1465.1	506.3	86.2	0.945	1.015	1.000	-0.031	1.015	-0.000	0.005	0.30	-0.03
29	19.000	14.142	0.000	0.926	979.8	1464.2	505.0	86.2	0.935	1.008	1.000	-0.017	1.008	-0.001	0.005	0.30	-0.03
31	20.000	14.142	0.000	0.928	981.4	1464.6	506.1	86.1	0.937	1.008	1.000	-0.017	1.008	-0.000	0.005	0.30	-0.02
34	21.000	14.142	0.000	0.927	980.6	1464.3	505.7	86.0	0.934	1.007	1.000	-0.014	1.007	-0.000	0.006	0.33	0.01
36	22.000	14.142	0.000	0.929	982.4	1465.0	506.9	86.0	0.937	1.007	0.999	-0.016	1.007	0.000	0.006	0.33	0.01
41	23.000	14.142	0.000	0.928	981.6	1463.4	506.0	86.0	0.935	1.006	1.000	-0.013	1.006	-0.000	0.006	0.32	-0.01
48	24.000	14.142	0.000	0.924	978.5	1464.7	504.4	86.3	0.931	1.006	0.999	-0.013	1.006	-0.000	0.006	0.31	-0.03

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-B ALPHA CONFIG

TC-532 465 2.999 5.00 22

SURVEY ALFAS
1601 0.01

DATE
2-21-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	WE	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
6	-6.000	0.000-14.142	0.000-14.142	0.925	979.1	1465.8	504.9	86.6	0.931	1.006	1.000-0.012	1.006	1.006	0.000	0.000	0.005	0.29
7	-5.000	0.000-14.142	0.000-14.142	0.923	977.5	1465.3	503.9	86.5	0.926	1.003	1.000-0.006	1.003	1.003	0.000	0.000	0.005	0.30
8	-4.000	0.000-14.142	0.000-14.142	0.922	976.1	1463.1	502.3	86.4	0.924	1.003	1.000-0.005	1.003	1.003	0.000	0.000	0.005	0.29
9	-3.000	0.000-14.142	0.000-14.142	0.921	975.1	1465.3	502.6	86.3	0.924	1.004	0.999-0.008	1.004	1.004	0.000	0.000	0.004	0.25
10	-2.000	0.000-14.142	0.000-14.142	0.921	975.6	1464.2	502.5	86.2	0.925	1.003	1.000-0.006	1.003	1.003	0.000	0.000	0.004	0.21
11	-1.000	0.000-14.142	0.000-14.142	0.923	977.2	1464.0	503.3	86.4	0.926	1.003	1.000-0.006	1.003	1.003	0.000	0.000	0.003	0.19
12	0.000	0.000-14.142	0.000-14.142	0.924	977.7	1463.8	503.6	86.2	0.927	1.003	1.000-0.005	1.003	1.003	0.000	0.000	0.002	0.12
13	1.000	0.000-14.142	0.000-14.142	0.922	976.7	1465.3	503.4	86.4	0.926	1.003	1.000-0.007	1.003	1.003	0.000	0.000	0.001	0.08
14	2.000	0.000-14.142	0.000-14.142	0.922	976.4	1465.0	503.3	86.2	0.928	1.006	1.000-0.011	1.006	1.006	0.000	0.000	0.001	0.04
15	3.000	0.000-14.142	0.000-14.142	0.920	974.8	1464.2	502.0	86.3	0.926	1.006	1.000-0.011	1.006	1.006	0.000	0.000	0.000	0.03
17	4.000	0.000-14.142	0.000-14.142	0.925	979.4	1463.8	504.6	86.2	0.929	1.003	1.000-0.006	1.003	1.003	0.000	0.000	0.001	0.05
18	5.000	0.000-14.142	0.000-14.142	0.925	979.4	1463.2	504.4	86.3	0.933	1.007	1.000-0.014	1.007	1.007	0.000	0.000	0.001	0.06
19	6.000	0.000-14.142	0.000-14.142	0.924	978.1	1464.8	504.1	86.4	0.933	1.008	1.000-0.016	1.008	1.008	0.000	0.000	0.002	0.10
20	7.000	0.000-14.142	0.000-14.142	0.923	977.3	1463.9	503.5	86.2	0.929	1.005	1.000-0.011	1.005	1.005	0.000	0.000	0.002	0.10
21	8.000	0.000-14.142	0.000-14.142	0.926	980.0	1464.5	505.2	86.3	0.931	1.005	0.999-0.011	1.005	1.005	0.000	0.000	0.002	0.13
22	9.000	0.000-14.142	0.000-14.142	0.926	980.1	1465.7	505.7	86.3	0.931	1.005	0.999-0.011	1.005	1.005	0.000	0.000	0.003	0.03
23	10.000	0.000-14.142	0.000-14.142	0.925	979.3	1464.4	504.6	86.2	0.926	1.001	0.999-0.004	1.001	1.001	0.000	0.000	0.003	0.18
24	11.000	0.000-14.142	0.000-14.142	0.926	979.4	1463.9	504.7	86.1	0.926	1.000	1.000-0.001	1.000	1.000	0.000	0.000	0.004	0.21
25	12.000	0.000-14.142	0.000-14.142	0.927	980.7	1464.6	505.7	86.2	0.926	0.999	1.000-0.002	0.999	0.999	0.000	0.000	0.004	0.25
26	13.000	0.000-14.142	0.000-14.142	0.928	981.6	1464.6	506.1	86.4	0.927	0.999	1.000-0.002	0.999	0.999	0.000	0.000	0.005	0.29
28	14.000	0.000-14.142	0.000-14.142	0.925	979.3	1464.4	504.8	86.2	0.927	1.001	1.000-0.002	1.001	1.001	0.000	0.000	0.006	0.33
30	15.000	0.000-14.142	0.000-14.142	0.925	979.0	1467.4	505.6	86.4	0.925	1.000	0.999-0.002	1.000	1.000	0.000	0.000	0.006	0.32
31	16.000	0.000-14.142	0.000-14.142	0.927	981.0	1465.5	506.0	86.5	0.928	1.001	1.000-0.002	1.001	1.001	0.000	0.000	0.006	0.33
33	17.000	0.000-14.142	0.000-14.142	0.928	981.8	1465.9	506.7	86.4	0.930	1.002	0.999-0.005	1.002	1.002	0.000	0.000	0.006	0.33
36	18.000	0.000-14.142	0.000-14.142	0.927	981.0	1463.8	505.6	86.2	0.929	1.001	1.000-0.002	1.001	1.001	0.000	0.000	0.005	0.31
39	19.000	0.000-14.142	0.000-14.142	0.929	982.4	1465.8	507.0	86.4	0.930	1.001	0.999-0.004	1.001	1.001	0.000	0.000	0.005	0.31
42	20.000	0.000-14.142	0.000-14.142	0.926	980.2	1464.0	505.1	86.4	0.930	1.004	1.000-0.007	1.004	1.004	0.000	0.000	0.005	0.31
43	21.000	0.000-14.142	0.000-14.142	0.924	978.7	1464.9	504.5	86.5	0.925	1.001	1.000-0.001	1.001	1.001	0.000	0.000	0.005	0.28
50	22.000	0.000-14.142	0.000-14.142	0.926	980.3	1466.6	506.0	86.4	0.930	1.004	1.000-0.008	1.004	1.004	0.000	0.000	0.005	0.26
51	23.000	0.000-14.142	0.000-14.142	0.930	983.4	1464.8	507.2	86.5	0.933	1.003	1.000-0.005	1.003	1.003	0.000	0.000	0.005	0.26
52	24.000	0.000-14.142	0.000-14.142	0.926	980.3	1465.6	505.7	86.4	0.932	1.005	1.000-0.011	1.005	1.005	0.000	0.000	0.004	0.21

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 466 2.996 5.00

SURVEY ALFAS
22 1602 0.02

DATE
2-21-78

AEDC PROPULSION WIND TUNNEL
TRANSONIC AT

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VWL/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
3	-6.000	14.142	0.000	0.924	978.2	1464.3	504.0	86.5	0.926	1.002	1.000	-0.003	1.002	0.004	0.004	0.24	0.20
5	-5.000	14.142	0.000	0.928	982.1	1465.4	506.6	86.7	0.930	1.002	1.001	-0.003	1.002	0.004	0.003	0.19	0.24
6	-4.000	14.142	0.000	0.924	978.2	1465.1	504.2	86.5	0.926	1.002	1.000	-0.003	1.002	0.004	0.003	0.19	0.24
7	-3.000	14.142	0.000	0.925	978.8	1466.7	505.2	86.4	0.926	1.001	1.000	-0.003	1.001	0.004	0.003	0.19	0.25
8	-2.000	14.142	0.000	0.925	979.3	1466.5	505.3	86.6	0.925	1.000	1.000	-0.001	1.000	0.005	0.003	0.18	0.25
9	-1.000	14.142	0.000	0.924	977.9	1463.7	503.7	86.3	0.922	0.999	1.000	0.003	0.999	0.005	0.003	0.15	0.30
10	0.000	14.142	0.000	0.924	978.6	1466.1	504.7	86.7	0.926	1.001	1.000	-0.003	1.001	0.005	0.003	0.17	0.35
11	1.000	14.142	0.000	0.924	977.9	1466.4	504.5	86.5	0.925	1.001	0.999	-0.004	1.001	0.007	0.003	0.15	0.42
12	2.000	14.142	0.000	0.923	977.8	1464.9	503.9	86.5	0.925	1.001	1.000	-0.003	1.001	0.008	0.003	0.15	0.42
13	3.000	14.142	0.000	0.926	979.7	1465.2	505.2	86.4	0.928	1.002	1.000	-0.004	1.002	0.008	0.002	0.14	0.48
14	4.000	14.142	0.000	0.926	980.3	1465.5	505.7	86.4	0.931	1.004	0.999	-0.010	1.004	0.008	0.003	0.15	0.47
15	5.000	14.142	0.000	0.926	979.5	1464.8	505.0	86.2	0.932	1.006	1.000	-0.012	1.006	0.009	0.003	0.15	0.51
16	6.000	14.142	0.000	0.925	979.2	1464.4	504.6	86.5	0.934	1.006	1.001	-0.014	1.008	0.009	0.002	0.14	0.51
17	7.000	14.142	0.000	0.926	980.1	1464.1	505.1	86.3	0.934	1.007	1.000	-0.014	1.007	0.008	0.003	0.17	0.49
18	8.000	14.142	0.000	0.927	981.4	1465.8	506.3	86.5	0.936	1.008	1.000	-0.016	1.008	0.008	0.003	0.17	0.47
19	9.000	14.142	0.000	0.928	982.2	1464.9	506.5	86.5	0.935	1.006	1.000	-0.011	1.006	0.008	0.003	0.18	0.45
20	10.000	14.142	0.000	0.927	981.0	1464.2	505.7	86.3	0.931	1.004	1.000	-0.007	1.004	0.008	0.004	0.21	0.47
21	11.000	14.142	0.000	0.927	980.8	1465.8	505.9	86.6	0.932	1.005	1.000	-0.009	1.004	0.008	0.004	0.24	0.47
22	12.000	14.142	0.000	0.927	981.4	1465.9	506.4	86.5	0.933	1.005	1.000	-0.010	1.005	0.009	0.005	0.27	0.49
23	13.000	14.142	0.000	0.927	981.1	1466.2	506.3	86.6	0.932	1.005	1.000	-0.011	1.005	0.009	0.005	0.32	0.50
24	14.000	14.142	0.000	0.928	982.3	1463.8	506.2	86.5	0.938	1.009	1.001	-0.016	1.009	0.009	0.007	0.38	0.53
25	15.000	14.142	0.000	0.925	979.2	1463.5	504.3	86.4	0.939	1.013	1.001	-0.024	1.013	0.008	0.008	0.48	0.48
26	16.000	14.142	0.000	0.929	982.5	1465.2	506.9	86.4	0.949	1.018	1.001	-0.035	1.018	0.007	0.010	0.58	0.60
27	17.000	14.142	0.000	0.927	980.8	1464.0	505.5	86.3	0.949	1.020	1.000	-0.040	1.020	0.004	0.012	0.70	0.60
29	18.000	14.142	0.000	0.923	977.7	1466.5	504.4	86.5	0.940	1.016	1.000	-0.031	1.015	0.001	0.013	0.76	0.65
30	19.000	14.142	0.000	0.927	980.6	1465.1	505.8	86.5	0.937	1.009	1.000	-0.018	1.009	0.000	0.014	0.81	0.63
32	20.000	14.142	0.000	0.926	980.2	1463.8	505.0	86.3	0.933	1.006	1.000	-0.012	1.006	0.001	0.015	0.84	0.64
35	21.000	14.142	0.000	0.927	981.3	1465.5	506.3	86.4	0.934	1.006	1.000	-0.012	1.006	0.001	0.015	0.83	0.66
36	22.000	14.142	0.000	0.928	981.9	1463.8	506.1	86.3	0.934	1.006	1.001	-0.010	1.005	0.001	0.015	0.84	0.68
42	23.000	14.142	0.000	0.928	981.4	1465.3	506.3	86.3	0.935	1.007	1.000	-0.013	1.007	0.001	0.015	0.85	0.66
46	24.000	14.142	0.000	0.926	979.9	1464.5	505.1	86.4	0.932	1.005	1.000	-0.011	1.005	0.001	0.015	0.85	0.68

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART RE10-6 ALPHA CONFIG SURVEY ALFAS
TC-532 318 2.996 0.00 22 1501 0.02

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CP/L	UT/VM	VT/VM	WT/VM	AT/L	SW/L
7	-6.000	0.000-14.142	0.948	0.948	997.0	1439.7	507.9	83.2	0.954	1.005	0.998	-0.013	1.005	-0.000	0.003	0.16	-0.01
8	-5.000	0.000-14.142	0.948	0.948	996.6	1439.0	507.4	83.3	0.952	1.004	0.998	-0.011	1.004	-0.000	0.002	0.14	-0.02
9	-4.000	0.000-14.142	0.945	0.945	994.5	1439.0	506.3	83.2	0.949	1.003	0.999	-0.008	1.003	-0.000	0.002	0.12	-0.01
11	-3.000	0.000-14.142	0.946	0.946	994.4	1438.0	506.4	82.9	0.947	1.002	0.999	-0.006	1.002	-0.001	0.002	0.09	-0.04
15	-2.000	0.000-14.142	0.948	0.948	996.6	1436.7	506.7	83.1	0.949	1.001	1.000	-0.002	1.001	-0.001	0.001	0.07	-0.03
16	-1.000	0.000-14.142	0.950	0.950	998.4	1437.0	507.7	83.3	0.952	1.003	0.998	-0.009	1.003	-0.000	-0.000	0.07	-0.01
17	0.000	0.000-14.142	0.947	0.947	995.6	1436.3	506.1	82.9	0.948	1.001	0.998	-0.005	1.001	-0.000	-0.001	0.04	-0.01
18	1.000	0.000-14.142	0.947	0.947	996.2	1437.0	506.6	83.0	0.946	0.999	0.999	-0.000	0.999	-0.000	-0.002	0.12	-0.02
19	2.000	0.000-14.142	0.950	0.950	998.2	1439.1	508.5	83.0	0.955	1.005	0.999	-0.012	1.005	-0.000	-0.003	0.19	-0.01
20	3.000	0.000-14.142	0.947	0.947	998.1	1440.4	507.7	83.2	0.955	1.007	0.998	-0.017	1.007	-0.000	-0.004	0.24	-0.01
21	4.000	0.000-14.142	0.951	0.951	999.2	1440.5	509.5	83.2	0.961	1.009	0.999	-0.021	1.009	-0.001	-0.004	0.24	-0.03
22	5.000	0.000-14.142	0.949	0.949	997.9	1440.1	508.6	83.2	0.963	1.012	0.998	-0.026	1.012	-0.001	-0.005	0.26	-0.03
23	6.000	0.000-14.142	0.947	0.947	996.0	1440.3	507.6	83.2	0.962	1.014	0.998	-0.030	1.014	-0.001	-0.004	0.22	-0.03
24	7.000	0.000-14.142	0.949	0.949	997.8	1439.4	508.4	83.0	0.962	1.011	0.999	-0.023	1.011	-0.000	-0.003	0.19	-0.02
25	8.000	0.000-14.142	0.952	0.952	1000.6	1441.9	510.7	83.2	0.969	1.015	0.998	-0.033	1.015	-0.000	-0.003	0.16	-0.02
26	9.000	0.000-14.142	0.952	0.952	1000.1	1441.6	510.3	83.3	0.968	1.015	0.998	-0.032	1.015	-0.000	-0.002	0.13	-0.02
27	10.000	0.000-14.142	0.951	0.951	1000.1	1440.7	509.9	83.5	0.961	1.008	0.998	-0.020	1.008	-0.000	-0.002	0.14	-0.02
28	11.000	0.000-14.142	0.950	0.950	998.9	1439.0	508.8	83.0	0.958	1.007	0.999	-0.015	1.007	-0.000	-0.002	0.12	-0.02
29	12.000	0.000-14.142	0.953	0.953	1000.9	1440.7	510.5	83.2	0.962	1.008	0.999	-0.019	1.008	-0.000	-0.002	0.13	-0.01
30	13.000	0.000-14.142	0.953	0.953	1001.7	1440.4	510.8	83.2	0.963	1.008	0.999	-0.019	1.008	-0.000	-0.002	0.13	-0.01
31	14.000	0.000-14.142	0.953	0.953	1001.4	1440.7	510.8	83.1	0.965	1.010	0.999	-0.023	1.010	-0.000	-0.002	0.11	-0.00
32	15.000	0.000-14.142	0.949	0.949	997.5	1439.9	508.4	82.9	0.969	1.018	0.998	-0.037	1.018	-0.000	-0.001	0.05	-0.01
33	16.000	0.000-14.142	0.954	0.954	1002.1	1437.4	509.9	83.4	0.979	1.022	0.997	-0.049	1.022	-0.000	0.000	0.01	-0.00
34	17.000	0.000-14.142	0.951	0.951	1000.2	1437.6	508.8	83.6	0.976	1.022	0.998	-0.047	1.022	-0.000	0.004	0.20	-0.01
35	18.000	0.000-14.142	0.951	0.951	998.4	1437.6	508.4	83.4	0.970	1.017	0.998	-0.036	1.017	-0.000	0.006	0.32	-0.01
36	19.000	0.000-14.142	0.950	0.950	998.9	1439.4	509.8	83.3	0.966	1.014	0.999	-0.030	1.014	-0.000	0.006	0.33	-0.01
37	20.000	0.000-14.142	0.953	0.953	1001.6	1441.3	511.0	83.3	0.965	1.010	0.999	-0.022	1.010	-0.000	0.006	0.33	-0.01
38	21.000	0.000-14.142	0.949	0.949	997.6	1441.1	508.7	83.4	0.959	1.009	0.999	-0.020	1.009	-0.001	0.006	0.32	-0.03
39	22.000	0.000-14.142	0.953	0.953	1001.4	1441.4	511.0	83.2	0.963	1.009	0.998	-0.021	1.009	-0.000	0.005	0.28	-0.02
40	23.000	0.000-14.142	0.954	0.954	1002.0	1436.6	509.5	83.4	0.968	1.013	0.998	-0.028	1.013	-0.001	0.005	0.30	-0.04
41	24.000	0.000-14.142	0.952	0.952	1000.9	1437.5	509.2	83.6	0.965	1.011	0.998	-0.025	1.011	-0.001	0.006	0.34	-0.04

DATE 9-4AP-75 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA

CONFIG 22

SURVEY ALFAS

1602 0.01

DATE 2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
2	-5.000	14.142	0.000	0.951	999.8	1441.1	509.9	83.4	0.954	1.003	0.999	-0.007	1.003	0.003	0.001	0.03	0.15
3	-5.000	14.142	0.000	0.951	999.5	1439.6	509.3	83.2	0.952	1.001	0.999	-0.004	1.001	0.003	0.001	0.04	0.17
4	-4.000	14.142	0.000	0.952	1000.2	1441.9	510.5	83.2	0.953	1.001	0.998	-0.005	1.001	0.003	0.001	0.03	0.19
5	-3.000	14.142	0.000	0.950	998.9	1439.4	508.8	83.3	0.950	1.000	0.999	-0.001	1.000	0.004	0.000	0.02	0.23
6	-2.000	14.142	0.000	0.952	1000.3	1436.3	508.5	83.3	0.953	1.001	0.999	-0.004	1.001	0.004	0.000	0.00	0.25
7	-1.000	14.142	0.000	0.952	1000.2	1437.6	509.0	83.3	0.951	1.000	0.998	-0.003	1.000	0.005	-0.000	0.00	0.30
8	0.000	14.142	0.000	0.950	998.5	1437.2	507.9	83.3	0.948	0.999	0.998	-0.000	0.999	0.006	0.000	0.01	0.32
9	1.000	14.142	0.000	0.949	998.1	1438.2	508.0	83.3	0.949	1.002	0.999	-0.002	1.002	0.007	-0.000	0.00	0.38
10	2.000	14.142	0.000	0.950	998.9	1440.3	509.2	83.3	0.952	1.002	0.998	-0.007	1.002	0.008	-0.000	0.02	0.43
11	3.000	14.142	0.000	0.949	998.1	1438.7	508.2	83.2	0.953	1.003	0.999	-0.008	1.003	0.008	-0.000	0.03	0.47
12	4.000	14.142	0.000	0.950	999.0	1440.0	509.1	83.3	0.958	1.007	0.999	-0.016	1.007	0.009	-0.000	0.01	0.49
13	5.000	14.142	0.000	0.951	999.3	1439.8	509.3	83.2	0.963	1.011	0.999	-0.024	1.011	0.008	-0.001	0.03	0.47
14	6.000	14.142	0.000	0.951	1000.1	1439.7	509.5	83.6	0.965	1.012	0.999	-0.026	1.012	0.008	-0.000	0.02	0.45
15	7.000	14.142	0.000	0.952	1001.1	1442.0	510.9	83.5	0.968	1.014	0.999	-0.030	1.014	0.007	-0.001	0.03	0.40
16	8.000	14.142	0.000	0.952	1001.1	1440.1	510.2	83.5	0.967	1.013	0.999	-0.028	1.013	0.007	-0.001	0.04	0.38
17	9.000	14.142	0.000	0.953	1001.6	1441.3	511.0	83.3	0.964	1.010	0.999	-0.022	1.010	0.006	-0.001	0.06	0.32
18	10.000	14.142	0.000	0.952	1000.8	1442.2	510.8	83.5	0.959	1.006	0.998	-0.016	1.006	0.006	-0.001	0.06	0.33
19	11.000	14.142	0.000	0.953	1001.5	1431.3	507.2	83.7	0.957	1.004	0.998	-0.012	1.004	0.006	-0.001	0.04	0.33
20	12.000	14.142	0.000	0.953	1001.7	1431.2	507.5	83.3	0.959	1.005	0.999	-0.011	1.005	0.006	-0.001	0.05	0.37
21	13.000	14.142	0.000	0.953	1001.2	1436.4	509.1	83.2	0.963	1.009	0.999	-0.020	1.009	0.007	-0.002	0.09	0.38
22	14.000	14.142	0.000	0.950	998.7	1435.8	507.7	82.8	0.960	1.009	0.998	-0.020	1.009	0.007	-0.001	0.08	0.38
23	15.000	14.142	0.000	0.953	1001.3	1436.5	509.3	83.0	0.968	1.013	0.998	-0.029	1.013	0.006	-0.001	0.06	0.36
24	16.000	14.142	0.000	0.952	1000.5	1436.9	509.0	83.0	0.972	1.017	0.999	-0.036	1.017	0.005	-0.001	0.07	0.36
26	17.000	14.142	0.000	0.950	999.3	1440.5	509.3	83.6	0.960	1.027	0.999	-0.055	1.027	0.001	-0.002	0.10	0.08
27	18.000	14.142	0.000	0.948	997.2	1429.4	504.3	83.4	0.969	1.018	0.999	-0.038	1.018	-0.002	-0.002	0.12	0.13
28	19.000	14.142	0.000	0.952	1000.8	1434.7	508.1	83.5	0.967	1.013	0.999	-0.028	1.013	-0.003	-0.003	0.15	0.15
29	20.000	14.142	0.000	0.954	1001.8	1437.0	509.6	83.2	0.961	1.006	0.999	-0.015	1.006	-0.002	-0.003	0.15	0.10
30	21.000	14.142	0.000	0.951	999.4	1440.9	509.6	83.3	0.956	1.005	0.999	-0.011	1.005	-0.001	-0.003	0.15	0.07
31	22.000	14.142	0.000	0.951	999.8	1442.3	510.2	83.5	0.963	1.010	0.999	-0.023	1.010	-0.001	-0.003	0.17	0.04
32	23.000	14.142	0.000	0.951	999.7	1442.0	510.3	83.1	0.959	1.007	0.998	-0.016	1.007	-0.001	-0.003	0.17	0.04
33	24.000	14.142	0.000	0.952	1000.7	1440.5	510.3	83.3	0.964	1.010	0.999	-0.023	1.010	-0.001	-0.003	0.16	0.03

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART HEX10-6 ALPHA

CONFIG 22

ALFAS 0.02

SURVEY 1601

DATE 2-18-78

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

TEST POINT			SURVEY			DATE			AEDC PROPULSION WIND TUNNEL							
TC-532			1601			2-18-78			TRANSONIC 4T							
XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
-6.000	0.000-14.142	0.950	999.1	1442.1	509.7	83.7	0.960	1.009	1.000	-0.017	1.009	-0.001	0.003	0.17	-0.03	
-5.000	0.000-14.142	0.950	999.6	1443.7	510.5	83.9	0.961	1.010	0.999	-0.021	1.010	-0.001	0.003	0.15	-0.03	
-4.000	0.000-14.142	0.949	998.0	1442.5	509.1	83.9	0.958	1.008	1.000	-0.017	1.008	-0.001	0.003	0.14	-0.03	
-3.000	0.000-14.142	0.946	995.1	1440.6	507.1	83.3	0.952	1.006	1.000	-0.011	1.006	-0.001	0.002	0.10	-0.06	
-2.000	0.000-14.142	0.945	995.1	1442.5	507.6	83.7	0.953	1.007	0.999	-0.014	1.007	-0.001	0.001	0.06	-0.04	
-1.000	0.000-14.142	0.950	999.3	1442.7	509.9	83.9	0.957	1.006	1.000	-0.012	1.006	-0.001	0.001	0.03	-0.06	
0.000	0.000-14.142	0.949	997.9	1443.0	509.4	83.6	0.956	1.006	0.999	-0.013	1.006	-0.001	0.001	0.03	-0.05	
1.000	0.000-14.142	0.946	996.0	1441.6	507.7	83.9	0.954	1.007	0.999	-0.014	1.007	-0.001	0.001	0.03	-0.05	
2.000	0.000-14.142	0.948	997.4	1445.2	509.9	83.7	0.957	1.008	0.999	-0.017	1.008	-0.001	0.002	0.11	-0.04	
3.000	0.000-14.142	0.950	999.0	1442.8	510.1	83.3	0.963	1.011	1.000	-0.022	1.011	-0.001	0.004	0.20	-0.04	
4.000	0.000-14.142	0.950	998.7	1443.5	510.1	83.4	0.966	1.015	0.999	-0.030	1.015	-0.001	0.004	0.24	-0.04	
5.000	0.000-14.142	0.947	995.9	1440.9	507.6	83.5	0.962	1.014	0.999	-0.029	1.014	-0.001	0.004	0.22	-0.03	
6.000	0.000-14.142	0.951	1000.4	1442.5	510.5	83.9	0.971	1.017	1.000	-0.035	1.017	-0.001	0.003	0.19	-0.03	
7.000	0.000-14.142	0.950	998.9	1442.5	509.9	83.4	0.970	1.018	1.000	-0.037	1.018	-0.001	0.003	0.19	-0.04	
8.000	0.000-14.142	0.949	998.9	1441.5	509.2	84.0	0.969	1.017	1.000	-0.035	1.017	-0.001	0.003	0.17	-0.03	
9.000	0.000-14.142	0.948	997.0	1440.4	508.1	83.3	0.963	1.014	1.001	-0.026	1.014	-0.001	0.003	0.16	-0.03	
10.000	0.000-14.142	0.950	999.3	1442.7	510.1	83.5	0.963	1.011	0.999	-0.023	1.011	-0.000	0.003	0.18	-0.01	
11.000	0.000-14.142	0.949	998.4	1441.8	509.2	83.6	0.958	1.008	0.999	-0.017	1.008	-0.001	0.003	0.17	-0.03	
12.000	0.000-14.142	0.951	999.2	1442.5	510.1	83.3	0.959	1.007	1.000	-0.016	1.007	-0.000	0.004	0.20	-0.02	
13.000	0.000-14.142	0.950	998.9	1443.3	510.2	83.4	0.962	1.011	1.000	-0.023	1.011	-0.000	0.004	0.22	-0.02	
14.000	0.000-14.142	0.954	1002.4	1442.1	511.6	83.6	0.967	1.012	1.000	-0.023	1.012	0.000	0.004	0.21	0.01	
15.000	0.000-14.142	0.955	1003.3	1442.4	512.1	83.7	0.971	1.014	0.999	-0.029	1.014	0.000	0.004	0.20	0.01	
16.000	0.000-14.142	0.948	997.3	1441.1	508.3	83.8	0.964	1.014	1.001	-0.027	1.014	0.000	0.004	0.12	0.01	
17.000	0.000-14.142	0.952	1000.7	1443.8	511.1	83.9	0.975	1.021	1.000	-0.043	1.021	0.000	0.001	0.03	0.02	
18.000	0.000-14.142	0.949	998.0	1440.3	508.8	83.1	0.963	1.012	1.000	-0.024	1.012	0.000	0.000	0.00	0.01	
19.000	0.000-14.142	0.952	1000.6	1442.4	510.8	83.5	0.970	1.016	1.000	-0.034	1.016	-0.000	0.001	0.03	-0.01	
20.000	0.000-14.142	0.952	1001.0	1443.1	511.2	83.6	0.967	1.013	0.999	-0.027	1.013	0.000	0.001	0.03	0.00	
21.000	0.000-14.142	0.953	1001.4	1441.1	510.7	83.6	0.965	1.011	1.000	-0.022	1.011	-0.000	0.001	0.04	-0.02	
22.000	0.000-14.142	0.952	1001.0	1440.5	510.1	83.8	0.964	1.010	1.000	-0.021	1.010	-0.000	0.001	0.04	-0.02	
23.000	0.000-14.142	0.952	1000.8	1441.9	510.7	83.5	0.966	1.012	1.001	-0.024	1.012	-0.000	0.001	0.04	-0.03	
24.000	0.000-14.142	0.953	1001.3	1441.3	510.9	83.3	0.968	1.014	1.000	-0.027	1.014	-0.001	0.002	0.09	-0.05	

DATE 9-MAR-76 PROJECT NO P41C-N0C

ARO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART 349 2.995 2.00 22 CONFIG SURVEY ALFAS 1602 0.01

DATE 2-18-78 AEDC PROPULSION WIND TUNNEL TRANSONIC 41

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
2	-9.000	14.142	0.000	0.947	996.5	1433.3	508.4	84.1	0.952	1.005	1.000	-0.011	1.005	0.003	0.001	0.06	0.15
3	-5.000	14.142	0.000	0.947	996.9	1435.1	509.3	84.1	0.953	1.005	0.999	-0.011	1.005	0.003	0.001	0.05	0.17
4	-1.000	14.142	0.000	0.946	995.9	1442.5	508.0	83.8	0.951	1.004	1.000	-0.007	1.004	0.003	0.001	0.05	0.19
5	-3.000	14.142	0.000	0.951	999.9	1431.1	510.5	83.8	0.956	1.005	1.000	-0.009	1.005	0.003	0.001	0.05	0.19
6	-2.000	14.142	0.000	0.950	999.5	1433.3	510.4	83.7	0.956	1.005	1.000	-0.010	1.005	0.004	0.001	0.04	0.24
7	-1.000	14.142	0.000	0.951	999.6	1432.8	510.3	83.6	0.956	1.005	1.000	-0.009	1.005	0.005	0.000	0.03	0.27
8	0.000	14.142	0.000	0.950	999.1	1431.5	509.5	83.7	0.954	1.004	1.000	-0.008	1.004	0.006	0.000	0.01	0.32
9	1.000	14.142	0.000	0.950	999.3	1433.2	510.0	84.0	0.955	1.005	1.000	-0.010	1.005	0.007	0.000	0.02	0.37
10	2.000	14.142	0.000	0.949	998.5	1433.7	509.8	83.9	0.955	1.006	1.000	-0.011	1.006	0.007	-0.000	-0.01	0.42
11	3.000	14.142	0.000	0.950	999.1	1432.5	509.8	83.8	0.958	1.008	1.000	-0.016	1.008	0.008	0.000	0.03	0.47
12	4.000	14.142	0.000	0.949	998.1	1431.9	509.2	83.4	0.962	1.011	1.000	-0.023	1.011	0.008	0.000	0.00	0.47
13	5.000	14.142	0.000	0.950	999.3	1432.0	509.9	83.5	0.966	1.014	0.999	-0.028	1.013	0.008	-0.000	-0.01	0.48
14	6.000	14.142	0.000	0.950	999.0	1430.8	509.3	83.4	0.968	1.016	1.001	-0.031	1.016	0.008	0.000	0.00	0.47
15	7.000	14.142	0.000	0.951	999.7	1431.9	510.1	83.5	0.971	1.018	1.000	-0.036	1.018	0.007	-0.000	-0.00	0.40
16	8.000	14.142	0.000	0.952	1000.7	1431.8	510.5	83.6	0.969	1.015	1.000	-0.031	1.015	0.006	0.000	0.00	0.36
17	9.000	14.142	0.000	0.953	1001.3	1432.3	511.0	83.6	0.969	1.014	1.000	-0.029	1.014	0.006	-0.000	-0.01	0.34
18	10.000	14.142	0.000	0.950	999.1	1431.6	509.6	83.6	0.961	1.010	1.000	-0.020	1.010	0.006	0.000	0.00	0.33
19	11.000	14.142	0.000	0.953	1001.2	1432.7	511.2	83.5	0.963	1.010	1.000	-0.019	1.010	0.006	0.000	0.00	0.36
20	12.000	14.142	0.000	0.952	1001.2	1434.0	511.5	83.9	0.964	1.011	0.999	-0.023	1.011	0.006	0.000	0.02	0.35
21	13.000	14.142	0.000	0.952	1001.8	1432.0	510.9	84.3	0.965	1.011	1.000	-0.021	1.011	0.007	0.001	0.04	0.38
22	14.000	14.142	0.000	0.951	999.8	1433.0	510.6	83.3	0.966	1.013	1.000	-0.025	1.013	0.007	0.001	0.06	0.38
23	15.000	14.142	0.000	0.949	998.2	1431.5	509.1	83.5	0.969	1.017	1.000	-0.035	1.017	0.006	0.002	0.09	0.34
25	16.000	14.142	0.000	0.946	995.5	1432.4	507.7	83.9	0.972	1.023	1.000	-0.046	1.023	0.004	0.002	0.11	0.21
26	17.000	14.142	0.000	0.951	999.8	1433.0	510.3	83.9	0.983	1.029	1.000	-0.057	1.029	0.001	0.003	0.17	0.08
27	18.000	14.142	0.000	0.953	1002.0	1432.5	511.3	84.0	0.986	1.029	1.000	-0.058	1.029	-0.002	0.003	0.16	-0.13
28	19.000	14.142	0.000	0.952	1000.5	1433.0	510.9	83.6	0.988	1.015	1.000	-0.030	1.015	-0.002	0.003	0.18	-0.13
29	20.000	14.142	0.000	0.952	1001.0	1432.0	510.7	83.8	0.966	1.012	1.000	-0.025	1.012	-0.002	0.003	0.19	-0.10
30	21.000	14.142	0.000	0.950	999.3	1432.8	510.0	83.8	0.964	1.013	1.000	-0.024	1.013	-0.001	0.003	0.19	-0.08
31	22.000	14.142	0.000	0.953	1001.7	1431.9	511.2	83.4	0.964	1.010	1.001	-0.018	1.010	-0.001	0.004	0.20	-0.03
32	23.000	14.142	0.000	0.954	1002.6	1435.6	512.7	84.0	0.967	1.012	0.999	-0.025	1.012	-0.001	0.003	0.17	-0.03
33	24.000	14.142	0.000	0.952	1001.2	1432.5	511.0	83.7	0.966	1.013	1.000	-0.025	1.013	-0.001	0.003	0.17	-0.03

DATE 9-WAR-78 PROJECT NO P41C-NDC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG

TC-532 370 3.000 5.00 22

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	XT	YT	ZT	M	VN	PT	Q	TT	ML	VML/VN	PTL/PT	CPL	UT/VN	VT/VN	WT/VN	ATL	SWTL
8	-6.000	0.000-14.142	0.949	993.9	1426.0	503.7	78.8	0.958	1.008	0.999	-0.017	1.008	0.000	0.000	0.005	0.28	0.02
9	-5.000	0.000-14.142	0.948	993.2	1426.1	503.3	78.8	0.956	1.007	0.999	-0.015	1.007	0.000	0.000	0.005	0.28	0.02
10	-4.000	0.000-14.142	0.950	994.6	1426.0	504.0	78.8	0.954	1.003	0.999	-0.008	1.003	0.000	0.000	0.004	0.25	0.02
11	-3.000	0.000-14.142	0.949	993.9	1425.0	503.3	78.7	0.955	1.005	0.999	-0.012	1.005	0.000	0.000	0.004	0.22	0.04
12	-2.000	0.000-14.142	0.947	991.6	1424.8	502.0	78.7	0.951	1.004	0.999	-0.010	1.004	0.000	0.000	0.003	0.19	0.03
14	-1.000	0.000-14.142	0.947	991.5	1425.3	502.0	78.8	0.951	1.004	0.999	-0.009	1.004	0.000	0.000	0.003	0.15	0.01
15	0.000	0.000-14.142	0.951	995.0	1424.5	503.8	78.7	0.955	1.004	0.999	-0.009	1.004	0.000	0.000	0.002	0.10	0.02
16	1.000	0.000-14.142	0.949	993.7	1425.9	503.5	78.7	0.955	1.005	0.998	-0.012	1.005	0.000	0.000	0.001	0.05	0.02
17	2.000	0.000-14.142	0.949	993.0	1423.6	502.4	78.5	0.951	1.002	0.999	-0.006	1.002	0.000	0.000	-0.000	-0.01	0.02
18	3.000	0.000-14.142	0.948	992.5	1425.0	502.7	78.5	0.956	1.007	0.999	-0.016	1.007	0.000	0.000	-0.001	-0.06	0.02
19	4.000	0.000-14.142	0.952	996.5	1424.4	504.6	78.5	0.963	1.009	0.999	-0.020	1.009	0.001	0.001	-0.002	-0.12	0.03
20	5.000	0.000-14.142	0.951	995.1	1425.4	504.3	78.5	0.963	1.011	0.999	-0.025	1.011	0.000	0.000	-0.002	-0.12	0.02
21	6.000	0.000-14.142	0.949	993.0	1424.4	502.7	78.5	0.962	1.012	0.999	-0.025	1.012	0.001	0.001	-0.002	-0.11	0.03
22	7.000	0.000-14.142	0.949	993.4	1425.5	503.3	78.5	0.959	1.009	0.998	-0.021	1.009	0.000	0.000	-0.002	-0.13	0.02
23	8.000	0.000-14.142	0.952	996.0	1424.6	504.5	78.5	0.962	1.009	0.999	-0.020	1.009	0.000	0.000	-0.002	-0.11	0.02
24	9.000	0.000-14.142	0.951	995.0	1424.1	503.8	78.4	0.958	1.006	0.999	-0.014	1.006	0.000	0.000	-0.002	-0.14	0.03
25	10.000	0.000-14.142	0.951	995.1	1423.8	503.7	78.5	0.955	1.004	0.999	-0.008	1.004	0.000	0.000	-0.003	-0.20	0.00
26	11.000	0.000-14.142	0.952	995.6	1425.0	504.4	78.5	0.952	1.000	0.999	-0.002	1.000	0.001	0.001	-0.004	-0.23	0.03
27	12.000	0.000-14.142	0.952	996.5	1424.6	504.6	78.7	0.950	0.998	0.999	0.002	0.998	0.001	0.001	-0.005	-0.27	0.04
28	13.000	0.000-14.142	0.951	995.2	1426.0	504.5	78.5	0.949	0.998	0.998	0.000	0.998	0.001	0.001	-0.006	-0.33	0.04
29	14.000	0.000-14.142	0.948	992.1	1423.5	502.0	78.2	0.948	1.000	0.999	-0.001	1.000	0.001	0.001	-0.006	-0.34	0.05
31	15.000	0.000-14.142	0.949	993.3	1423.8	502.8	78.3	0.950	1.001	0.999	-0.003	1.001	0.001	0.001	-0.006	-0.34	0.06
32	16.000	0.000-14.142	0.951	995.0	1424.1	503.8	78.3	0.954	1.003	0.999	-0.008	1.003	0.001	0.001	-0.006	-0.33	0.07
33	17.000	0.000-14.142	0.948	992.6	1423.2	502.2	78.3	0.951	1.003	0.999	-0.007	1.003	0.001	0.001	-0.005	-0.31	0.07
34	18.000	0.000-14.142	0.952	995.5	1423.2	503.8	78.3	0.957	1.005	0.999	-0.011	1.005	0.001	0.001	-0.005	-0.27	0.07
35	19.000	0.000-14.142	0.950	994.2	1423.4	503.2	78.2	0.955	1.005	0.999	-0.011	1.005	0.001	0.001	-0.004	-0.25	0.06
37	20.000	0.000-14.142	0.951	995.0	1424.0	503.7	78.4	0.955	1.004	0.999	-0.009	1.004	0.001	0.001	-0.004	-0.25	0.07
42	21.000	0.000-14.142	0.951	996.3	1426.5	504.8	79.4	0.956	1.004	0.999	-0.010	1.004	0.001	0.001	-0.004	-0.24	0.06
44	22.000	0.000-14.142	0.950	995.2	1426.7	504.4	79.1	0.956	1.005	0.999	-0.011	1.005	0.001	0.001	-0.004	-0.23	0.06
45	23.000	0.000-14.142	0.952	996.8	1427.4	505.5	79.2	0.961	1.008	0.999	-0.018	1.008	0.001	0.001	-0.004	-0.22	0.05
46	24.000	0.000-14.142	0.952	997.1	1427.2	505.5	79.4	0.958	1.005	0.998	-0.013	1.005	0.000	0.000	-0.003	-0.18	0.02

DATE 9-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION
A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART PEX10-6 ALFA CONFIG

TC-532 371 2.998 5.00 22 1602 SURVEY ALFAS

AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

DATE
2-20-78

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWFL
2	-6.000	14.142	0.000	0.948	993.6	1428.0	503.8	79.5	0.950	1.002	0.999	-0.005	1.002	0.004	0.003	0.20	0.20
3	-5.000	14.142	0.000	0.952	996.9	1428.8	505.6	79.8	0.957	1.005	0.999	-0.012	1.005	0.004	0.003	0.18	0.23
4	-4.000	14.142	0.000	0.950	995.8	1429.1	505.3	79.8	0.953	1.002	0.999	-0.005	1.002	0.004	0.004	0.21	0.24
5	-3.000	14.142	0.000	0.950	995.3	1428.3	504.8	79.5	0.952	1.002	0.999	-0.005	1.002	0.005	0.003	0.17	0.26
6	-2.000	14.142	0.000	0.950	995.5	1428.5	505.0	79.6	0.951	1.001	0.999	-0.004	1.001	0.005	0.003	0.17	0.28
7	-1.000	14.142	0.000	0.950	996.0	1428.0	505.3	79.9	0.951	1.000	0.998	-0.003	1.000	0.006	0.003	0.16	0.32
8	0.000	14.142	0.000	0.950	995.5	1430.3	505.4	80.1	0.952	1.002	0.999	-0.005	1.002	0.007	0.003	0.16	0.37
9	1.000	14.142	0.000	0.950	995.6	1430.2	505.4	80.1	0.951	1.001	0.999	-0.004	1.001	0.009	0.002	0.12	0.44
10	2.000	14.142	0.000	0.949	995.2	1430.6	505.3	80.1	0.952	1.002	0.999	-0.006	1.002	0.009	0.002	0.14	0.49
11	3.000	14.142	0.000	0.951	997.0	1430.0	506.1	80.1	0.956	1.005	0.999	-0.010	1.004	0.009	0.003	0.15	0.51
12	4.000	14.142	0.000	0.949	994.5	1429.6	504.5	80.1	0.958	1.009	1.000	-0.018	1.009	0.010	0.002	0.13	0.56
13	5.000	14.142	0.000	0.949	995.1	1429.8	504.9	80.2	0.959	1.009	0.999	-0.019	1.009	0.010	0.002	0.13	0.55
14	6.000	14.142	0.000	0.950	996.0	1429.7	505.4	80.2	0.962	1.011	0.999	-0.022	1.011	0.010	0.002	0.14	0.54
15	7.000	14.142	0.000	0.951	997.2	1430.5	506.3	80.3	0.965	1.012	0.999	-0.025	1.012	0.009	0.002	0.13	0.50
16	8.000	14.142	0.000	0.953	998.7	1430.0	507.1	80.0	0.964	1.009	0.999	-0.021	1.009	0.008	0.003	0.16	0.46
17	9.000	14.142	0.000	0.949	995.1	1428.6	504.6	80.0	0.957	1.007	1.000	-0.015	1.007	0.008	0.003	0.17	0.46
18	10.000	14.142	0.000	0.952	997.5	1430.8	506.7	80.0	0.957	1.005	0.999	-0.011	1.005	0.008	0.003	0.18	0.47
19	11.000	14.142	0.000	0.954	999.0	1429.9	507.3	79.9	0.957	1.003	0.999	-0.008	1.003	0.009	0.003	0.18	0.51
20	12.000	14.142	0.000	0.949	994.9	1429.0	504.7	79.8	0.952	1.002	0.999	-0.006	1.002	0.009	0.004	0.23	0.53
21	13.000	14.142	0.000	0.952	997.6	1429.2	506.3	79.9	0.959	1.006	0.999	-0.013	1.006	0.010	0.005	0.27	0.58
22	14.000	14.142	0.000	0.952	997.0	1428.9	505.8	79.9	0.962	1.009	1.000	-0.019	1.009	0.011	0.006	0.32	0.64
23	15.000	14.142	0.000	0.953	998.1	1429.2	506.5	79.9	0.967	1.013	1.000	-0.026	1.013	0.012	0.007	0.41	0.66
24	16.000	14.142	0.000	0.953	998.1	1429.9	506.7	80.0	0.977	1.021	0.999	-0.044	1.021	0.011	0.009	0.48	0.52
25	17.000	14.142	0.000	0.954	998.9	1429.3	507.0	79.9	0.992	1.033	0.999	-0.068	1.033	0.008	0.011	0.59	0.42
27	18.000	14.142	0.000	0.950	995.5	1429.4	505.1	80.1	0.995	1.040	0.999	-0.082	1.040	-0.001	0.015	0.82	-0.07
29	19.000	14.142	0.000	0.948	994.1	1429.1	504.1	80.1	0.963	1.013	0.999	-0.027	1.013	-0.002	0.015	0.87	-0.09
31	20.000	14.142	0.000	0.952	997.2	1430.2	506.3	80.1	0.960	1.007	0.999	-0.016	1.007	-0.001	0.015	0.88	-0.05
32	21.000	14.142	0.000	0.953	998.6	1430.6	507.2	80.1	0.962	1.008	0.999	-0.016	1.007	0.000	0.016	0.89	0.01
33	22.000	14.142	0.000	0.953	998.2	1429.8	506.7	80.1	0.961	1.008	0.999	-0.016	1.007	0.001	0.015	0.88	0.03
34	23.000	14.142	0.000	0.953	998.8	1429.7	507.0	80.1	0.964	1.009	0.999	-0.020	1.009	0.001	0.015	0.86	0.08
36	24.000	14.142	0.000	0.954	999.4	1430.5	507.6	80.1	0.964	1.009	0.999	-0.020	1.009	0.001	0.015	0.86	0.06

DATE 9-MAR-78 PROJECT NO P41C-N0C

ARD, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG SURVEY ALFAS

TC-532 388 2.998 0.00 22 1602 0.01

DATE
2-20-78
AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	2T	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SMTL
2	-0.000	14.142	0.000	1.046	1083.1	1405.2	538.6	83.9	1.051	1.004	0.999	-0.009	1.004	0.003	0.003	0.20	0.18
3	-5.000	14.142	0.000	1.049	1085.5	1404.4	539.3	83.9	1.049	1.000	0.999	-0.002	1.000	0.002	0.003	0.18	0.14
4	-1.000	14.142	0.000	1.050	1086.3	1404.1	539.5	83.9	1.047	0.998	0.998	0.003	0.998	0.002	0.003	0.20	0.10
5	-3.000	14.142	0.000	1.050	1086.3	1404.1	539.5	84.0	1.051	1.001	1.000	-0.002	1.001	0.002	0.003	0.17	0.12
6	-2.000	14.142	0.000	1.050	1086.2	1405.5	540.0	83.9	1.047	0.998	0.999	0.004	0.998	0.002	0.003	0.16	0.12
7	-1.000	14.142	0.000	1.050	1086.6	1404.2	541.2	83.9	1.045	0.996	0.998	0.005	0.996	0.002	0.003	0.19	0.11
8	0.000	14.142	0.000	1.047	1084.1	1407.5	539.8	84.0	1.043	0.997	1.000	0.006	0.997	0.002	0.004	0.21	0.13
9	1.000	14.142	0.000	1.047	1084.6	1405.3	538.8	84.0	1.022	0.980	1.000	0.039	0.980	0.005	0.004	0.22	0.13
10	2.000	14.142	0.000	1.053	1089.0	1407.2	541.7	84.4	1.012	0.968	0.998	0.061	0.968	0.009	0.003	0.19	0.52
11	3.000	14.142	0.000	1.052	1087.9	1405.4	540.6	84.3	1.011	0.968	1.000	0.063	0.968	0.012	0.003	0.16	0.70
12	4.000	14.142	0.000	1.051	1087.5	1403.7	539.8	84.3	1.010	0.967	0.998	0.063	0.967	0.013	0.002	0.12	0.75
13	5.000	14.142	0.000	1.051	1087.4	1403.6	539.7	84.1	1.016	0.973	1.000	0.054	0.972	0.014	0.002	0.10	0.81
14	6.000	14.142	0.000	1.050	1086.3	1400.7	538.3	83.8	1.032	0.986	0.999	0.028	0.986	0.015	0.002	0.13	0.90
15	7.000	14.142	0.000	1.052	1088.0	1403.0	539.9	83.9	1.046	0.996	0.999	0.007	0.995	0.016	0.002	0.11	0.94
17	8.000	14.142	0.000	1.051	1086.9	1401.6	539.1	83.4	1.053	1.001	0.999	-0.003	1.001	0.019	0.002	0.11	0.91
19	9.000	14.142	0.000	1.050	1085.9	1401.5	538.6	83.3	1.059	1.007	0.999	-0.015	1.007	0.014	0.002	0.14	0.79
20	10.000	14.142	0.000	1.052	1087.4	1402.4	539.7	83.3	1.070	1.014	0.998	-0.029	1.014	0.012	0.003	0.17	0.66
21	11.000	14.142	0.000	1.049	1084.3	1401.3	537.9	83.1	1.079	1.024	0.999	-0.049	1.024	0.008	0.004	0.21	0.44
22	12.000	14.142	0.000	1.051	1086.6	1402.6	539.4	83.3	1.094	1.033	0.999	-0.067	1.033	0.005	0.004	0.22	0.28
23	13.000	14.142	0.000	1.051	1085.9	1401.8	538.8	83.1	1.104	1.041	0.998	-0.084	1.041	0.002	0.004	0.20	0.10
24	14.000	14.142	0.000	1.052	1087.4	1402.2	539.6	83.2	1.114	1.047	0.998	-0.097	1.047	0.003	0.001	0.06	0.17
25	15.000	14.142	0.000	1.051	1086.1	1401.7	538.8	83.2	1.073	1.018	0.998	-0.037	1.018	0.003	0.001	0.06	0.15
26	16.000	14.142	0.000	1.052	1087.3	1403.0	539.9	83.2	1.030	0.982	0.999	0.033	0.982	0.012	0.001	0.07	0.70
27	17.000	14.142	0.000	1.053	1088.2	1400.4	539.4	83.0	1.027	0.979	1.000	0.042	0.979	0.010	0.001	0.06	0.59
28	18.000	14.142	0.000	1.054	1088.6	1401.4	539.9	83.2	1.041	0.990	0.999	0.019	0.990	0.003	0.002	0.12	0.19
29	19.000	14.142	0.000	1.052	1086.8	1401.9	539.3	83.1	1.062	1.008	0.999	-0.018	1.008	0.005	0.002	0.12	0.28
30	20.000	14.142	0.000	1.051	1085.8	1402.2	539.0	83.0	1.091	1.031	0.998	-0.065	1.031	0.013	0.002	0.09	0.69
31	21.000	14.142	0.000	1.051	1086.1	1401.9	539.0	83.1	1.116	1.050	0.997	-0.102	1.050	0.019	0.001	0.06	1.02
34	22.000	14.142	0.000	1.051	1086.3	1403.4	539.7	83.0	1.044	0.994	0.996	0.006	0.994	0.001	0.001	0.04	0.05
35	23.000	14.142	0.000	1.053	1088.0	1402.0	539.9	83.1	1.034	0.985	0.999	0.029	0.985	0.004	0.001	0.04	0.25
36	24.000	14.142	0.000	1.053	1088.0	1402.2	540.0	83.0	1.030	0.981	0.999	0.036	0.981	0.004	0.001	0.06	0.21

DATE 8-MAR-78 PROJECT NO P41C-N0C

ASO, INC.

AEC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNO AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 408 3.001 2.00 22 SURVEY ALFAS 0.02

DATE 2-20-78 AEC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
6	-6.000	0.000-14.142	1.050	1086.6	1405.6	540.2	84.0	1.051	1.001	0.999	-0.003	1.001	1.001	-0.000	0.006	0.34	-0.01
7	-5.000	0.000-14.142	1.050	1085.9	1403.8	539.2	83.9	1.051	1.001	1.000	-0.002	1.001	1.001	0.001	0.006	0.35	0.03
8	-4.000	0.000-14.142	1.051	1086.7	1405.1	540.1	83.9	1.052	1.001	0.999	-0.002	1.001	1.001	0.000	0.006	0.32	0.02
9	-3.000	0.000-14.142	1.050	1086.1	1405.5	540.0	84.0	1.050	1.000	0.998	-0.001	1.000	1.000	-0.000	0.006	0.32	-0.02
10	-2.000	0.000-14.142	1.048	1084.8	1404.5	539.0	84.0	1.048	1.000	0.999	-0.001	1.000	1.000	-0.000	0.006	0.35	-0.01
11	-1.000	0.000-14.142	1.052	1088.2	1405.0	540.7	83.9	1.054	1.001	0.999	-0.004	1.001	1.001	-0.000	0.006	0.34	-0.03
12	0.000	0.000-14.142	1.050	1086.2	1403.4	539.3	83.8	1.051	1.001	1.000	-0.002	1.001	1.001	-0.001	0.005	0.31	-0.04
13	1.000	0.000-14.142	1.048	1084.7	1404.1	538.8	83.9	1.045	0.998	1.000	0.004	0.998	1.001	0.001	0.003	0.20	-0.07
14	2.000	0.000-14.142	1.050	1086.1	1404.7	539.7	83.9	1.012	0.970	0.999	0.059	0.970	0.970	-0.001	-0.003	-0.19	-0.05
15	3.000	0.000-14.142	1.048	1084.2	1404.3	538.7	83.9	1.010	0.971	1.000	0.058	0.971	0.971	-0.000	-0.005	-0.32	-0.01
16	4.000	0.000-14.142	1.053	1088.3	1404.6	540.7	83.7	1.012	0.968	1.000	0.063	0.968	0.968	-0.000	-0.007	-0.40	-0.01
17	5.000	0.000-14.142	1.053	1088.7	1406.3	541.4	83.9	1.021	0.975	0.999	0.049	0.975	0.975	-0.001	-0.007	-0.40	-0.03
18	6.000	0.000-14.142	1.052	1088.0	1403.7	540.1	83.9	1.028	0.981	1.000	0.038	0.981	0.981	-0.000	-0.007	-0.43	-0.01
19	7.000	0.000-14.142	1.053	1088.9	1405.3	541.2	83.9	1.044	0.983	0.999	0.013	0.993	0.993	0.000	-0.009	-0.52	0.00
20	8.000	0.000-14.142	1.052	1087.9	1405.6	540.8	83.9	1.060	1.006	0.999	-0.013	1.006	1.006	0.000	-0.011	-0.60	0.02
21	9.000	0.000-14.142	1.052	1087.6	1406.0	540.9	83.8	1.065	1.010	0.998	-0.023	1.010	1.010	-0.000	-0.010	-0.55	-0.01
22	10.000	0.000-14.142	1.052	1088.1	1404.6	540.6	83.8	1.076	1.019	0.999	-0.038	1.019	1.019	-0.000	-0.008	-0.45	-0.01
23	11.000	0.000-14.142	1.053	1088.2	1405.0	540.8	83.7	1.086	1.026	0.999	-0.053	1.026	1.026	0.000	-0.005	-0.29	0.01
24	12.000	0.000-14.142	1.051	1086.8	1404.2	539.9	83.7	1.093	1.033	0.999	-0.066	1.033	1.033	0.000	0.000	0.01	0.01
25	13.000	0.000-14.142	1.051	1086.9	1402.6	539.2	84.0	1.108	1.044	0.999	-0.089	1.044	1.044	0.001	0.003	0.19	0.05
27	14.000	0.000-14.142	1.046	1083.0	1404.4	538.1	84.0	1.104	1.045	0.999	-0.091	1.045	1.045	0.001	0.013	0.09	0.06
28	15.000	0.000-14.142	1.046	1082.7	1401.9	537.0	84.1	1.028	0.987	0.999	0.026	0.987	0.987	0.000	0.004	0.24	0.02
29	16.000	0.000-14.142	1.049	1085.2	1403.5	538.9	84.0	0.982	0.947	0.999	0.105	0.947	0.947	0.000	-0.005	-0.31	0.01
30	17.000	0.000-14.142	1.049	1085.2	1405.2	539.4	84.0	1.002	0.963	0.998	0.072	0.963	0.963	0.000	-0.004	-0.23	0.02
32	18.000	0.000-14.142	1.050	1086.0	1406.1	540.1	84.0	1.019	0.976	0.998	0.046	0.976	0.976	0.000	-0.001	-0.05	0.02
33	19.000	0.000-14.142	1.050	1086.6	1405.8	540.2	84.2	1.038	0.991	0.999	0.016	0.991	0.991	-0.000	0.002	0.12	-0.00
35	20.000	0.000-14.142	1.049	1086.0	1405.6	539.9	84.2	1.062	1.010	0.999	-0.021	1.010	1.010	-0.000	0.005	0.27	-0.01
38	21.000	0.000-14.142	1.054	1089.7	1405.4	541.3	84.4	1.083	1.023	0.999	-0.046	1.023	1.023	-0.000	0.008	0.45	-0.00
39	22.000	0.000-14.142	1.049	1086.3	1404.6	539.5	84.5	1.086	1.028	0.999	-0.058	1.028	1.028	-0.000	0.009	0.52	-0.00
40	23.000	0.000-14.142	1.052	1088.3	1404.4	540.4	84.3	1.108	1.043	0.998	-0.088	1.043	1.043	-0.000	0.016	0.88	-0.02
41	24.000	0.000-14.142	1.050	1087.0	1407.6	540.9	84.5	1.024	0.980	0.996	0.036	0.980	0.980	0.000	-0.000	-0.02	0.01

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

IC-532 409 2.998 2.00 22 1602 SURVEY ALFAS

AEDC PROPULSION WIND TUNNEL

TRANSONIC 41

DATE

2-20-78

POINT	XT	YT	ZT	M	VN	PT	Q	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SA TL
3	-6.000	14.142	0.000	1.049	1085.4	1404.5	539.2	84.0	1.053	1.003	0.999	-0.007	1.003	0.003	0.003	0.14	0.16
4	-5.000	14.142	0.000	1.050	1086.2	1404.7	539.7	84.0	1.052	1.002	1.000	-0.004	1.002	0.002	0.003	0.16	0.13
5	-4.000	14.142	0.000	1.050	1086.6	1405.3	540.1	83.9	1.053	1.002	1.000	-0.005	1.002	0.001	0.003	0.15	0.08
6	-3.000	14.142	0.000	1.050	1086.1	1403.0	539.1	83.8	1.053	1.002	1.000	-0.004	1.002	0.001	0.002	0.13	0.08
7	-2.000	14.142	0.000	1.052	1087.8	1405.2	540.6	83.9	1.052	1.000	1.000	-0.001	1.000	0.001	0.002	0.14	0.08
8	-1.000	14.142	0.000	1.053	1088.3	1405.5	541.0	83.8	1.049	0.997	0.999	0.005	0.997	0.001	0.003	0.15	0.07
9	0.000	14.142	0.000	1.052	1087.7	1402.9	539.7	83.8	1.051	0.999	1.000	0.001	0.999	0.001	0.003	0.17	0.08
10	1.000	14.142	0.000	1.051	1086.7	1402.7	539.2	83.9	1.039	0.991	1.001	0.018	0.991	0.004	0.003	0.17	0.21
11	2.000	14.142	0.000	1.053	1088.4	1404.2	540.5	84.0	1.014	0.970	1.000	0.062	0.970	0.009	0.003	0.16	0.52
12	3.000	14.142	0.000	1.051	1086.8	1405.0	540.2	83.7	1.011	0.969	0.999	0.062	0.968	0.012	0.003	0.15	0.68
13	4.000	14.142	0.000	1.053	1088.7	1404.8	540.8	84.0	1.014	0.969	0.999	0.061	0.969	0.013	0.002	0.09	0.74
14	5.000	14.142	0.000	1.051	1087.4	1403.1	539.6	84.0	1.019	0.975	1.001	0.051	0.975	0.013	0.001	0.07	0.79
15	6.000	14.142	0.000	1.049	1085.0	1404.7	539.3	83.8	1.036	0.990	1.000	0.019	0.990	0.016	0.002	0.09	0.92
16	7.000	14.142	0.000	1.054	1089.4	1401.6	539.9	83.9	1.046	0.994	1.000	0.013	0.994	0.016	0.002	0.11	0.94
17	8.000	14.142	0.000	1.051	1087.0	1403.9	539.7	84.0	1.054	1.003	1.000	-0.006	1.003	0.016	0.002	0.09	0.89
18	9.000	14.142	0.000	1.048	1084.1	1402.9	538.1	83.9	1.059	1.009	1.001	-0.016	1.009	0.013	0.003	0.16	0.74
19	10.000	14.142	0.000	1.052	1087.8	1404.0	540.1	84.0	1.069	1.014	1.000	-0.027	1.013	0.012	0.003	0.15	0.66
20	11.000	14.142	0.000	1.050	1086.3	1406.1	540.2	84.0	1.082	1.025	0.998	-0.051	1.025	0.007	0.003	0.18	0.42
21	12.000	14.142	0.000	1.052	1088.3	1404.4	540.5	84.1	1.092	1.031	0.999	-0.063	1.031	0.005	0.004	0.24	0.27
22	13.000	14.142	0.000	1.050	1086.6	1407.1	540.6	84.3	1.098	1.037	0.997	-0.077	1.037	0.000	0.000	0.32	0.00
23	14.000	14.142	0.000	1.052	1088.4	1403.9	540.3	84.1	1.114	1.047	0.999	-0.096	1.047	0.004	0.001	0.05	0.20
24	15.000	14.142	0.000	1.050	1086.2	1404.5	539.6	84.1	1.037	0.990	0.999	0.017	0.990	0.007	0.000	0.02	0.41
25	16.000	14.142	0.000	1.049	1085.5	1406.2	539.9	84.1	1.017	0.975	0.999	0.049	0.975	0.011	0.004	0.24	0.68
26	17.000	14.142	0.000	1.052	1088.3	1404.6	540.5	84.3	1.027	0.980	1.000	0.038	0.980	0.009	0.005	0.32	0.54
27	18.000	14.142	0.000	1.051	1087.6	1406.1	540.6	84.6	1.045	0.996	0.999	0.008	0.996	0.001	0.007	0.40	0.08
28	19.000	14.142	0.000	1.049	1086.1	1405.7	539.8	84.5	1.069	1.016	1.000	-0.032	1.016	0.006	0.008	0.44	0.34
29	20.000	14.142	0.000	1.048	1086.3	1405.7	539.9	84.5	1.096	1.036	0.999	-0.073	1.036	0.011	0.008	0.47	0.63
30	21.000	14.142	0.000	1.048	1084.8	1407.0	539.8	84.3	1.113	1.050	0.998	-0.102	1.050	0.016	0.008	0.45	0.58
31	22.000	14.142	0.000	1.051	1087.4	1404.4	540.0	84.3	1.098	1.036	0.998	-0.075	1.036	0.010	0.008	0.43	0.53
32	23.000	14.142	0.000	1.051	1087.7	1407.5	541.2	84.4	1.034	0.987	1.000	0.026	0.987	0.004	0.006	0.34	0.26
33	24.000	14.142	0.000	1.048	1085.3	1404.1	538.8	84.7	1.028	0.984	1.000	0.031	0.984	0.003	0.005	0.27	0.17

DATE 8-MAR-78 PROJECT NO P41C-NOC

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNOLD AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALFA CONFIG

TC-532 425 2.995 5.00 22

DATE 2-20-78

SURVEY ALFAS 0.02

AEDC PROPULSION WIND TUNNEL

TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	Q	TT	ML	VML/VM	PTI/PT	CPL	UT/VM	VT/VM	WT/VM	ATL	SWTL
6	-6.000	0.000-14.142	1.050	1087.0	1405.5	540.0	84.7	1.051	1.001	0.999	-0.002	1.001	0.001	0.001	0.006	0.32	0.05
7	-5.000	0.000-14.142	1.048	1085.6	1406.1	539.6	84.8	1.051	1.002	1.000	-0.005	1.002	0.001	0.001	0.005	0.31	0.06
8	-4.000	0.000-14.142	1.049	1086.1	1407.3	540.2	84.9	1.048	0.999	0.999	0.001	0.999	0.001	0.000	0.006	0.32	0.04
9	-3.000	0.000-14.142	1.054	1090.5	1408.0	542.5	84.9	1.055	1.001	0.999	-0.004	1.001	0.000	0.000	0.005	0.31	0.02
10	-2.000	0.000-14.142	1.051	1087.8	1407.4	541.0	85.1	1.050	0.999	1.000	0.000	0.999	0.001	0.000	0.005	0.30	0.06
11	-1.000	0.000-14.142	1.050	1087.0	1409.0	541.3	84.9	1.052	1.002	0.999	-0.005	1.002	0.000	0.000	0.005	0.31	0.01
12	0.000	0.000-14.142	1.048	1085.4	1408.7	540.5	84.9	1.052	1.003	0.999	-0.007	1.003	0.000	0.000	0.005	0.30	0.02
13	1.000	0.000-14.142	1.049	1085.9	1408.8	540.0	84.7	1.049	1.001	1.000	-0.002	1.001	-0.000	0.000	0.005	0.28	-0.00
14	2.000	0.000-14.142	1.054	1090.5	1409.1	542.8	85.1	1.040	0.989	0.989	0.019	0.989	-0.000	0.001	0.001	0.03	-0.03
15	3.000	0.000-14.142	1.051	1087.8	1408.8	540.8	84.9	1.009	0.967	0.999	0.066	0.967	0.000	0.000	-0.006	-0.34	0.00
16	4.000	0.000-14.142	1.051	1087.5	1408.6	541.4	84.7	1.009	0.967	0.999	0.064	0.967	0.000	0.000	-0.007	-0.40	0.00
17	5.000	0.000-14.142	1.049	1085.8	1406.2	539.8	84.6	1.011	0.970	1.000	0.059	0.970	0.001	0.001	-0.007	-0.40	0.03
18	6.000	0.000-14.142	1.049	1086.3	1405.5	539.7	84.7	1.025	0.981	1.000	0.038	0.981	0.001	0.001	-0.008	-0.45	0.03
19	7.000	0.000-14.142	1.034	1086.4	1406.4	540.1	84.7	1.038	0.992	0.999	0.016	0.991	0.001	0.001	-0.010	-0.56	0.04
20	8.000	0.000-14.142	1.050	1086.7	1406.9	540.5	84.6	1.051	1.001	0.999	-0.003	1.001	0.000	0.000	-0.011	-0.64	0.03
21	9.000	0.000-14.142	1.051	1087.6	1406.2	540.6	84.7	1.061	1.008	1.000	-0.016	1.008	0.000	0.000	-0.010	-0.59	0.01
22	10.000	0.000-14.142	1.054	1090.1	1407.5	542.1	84.8	1.072	1.014	0.999	-0.030	1.014	-0.000	0.000	-0.010	-0.54	-0.01
23	11.000	0.000-14.142	1.050	1087.1	1406.0	540.3	84.8	1.081	1.024	0.999	-0.049	1.024	0.001	0.001	-0.006	-0.33	0.03
24	12.000	0.000-14.142	1.054	1090.2	1407.6	542.2	84.7	1.087	1.026	0.999	-0.053	1.026	0.002	0.002	-0.002	-0.12	0.09
25	13.000	0.000-14.142	1.046	1083.5	1408.8	538.3	84.6	1.099	1.041	1.000	-0.082	1.041	0.002	0.002	0.002	0.13	0.11
27	14.000	0.000-14.142	1.047	1084.4	1404.2	538.9	84.7	1.101	1.042	1.000	-0.084	1.042	0.001	0.001	0.008	0.53	0.07
29	15.000	0.000-14.142	1.048	1085.7	1404.2	538.9	84.9	0.963	0.932	0.999	0.136	0.932	0.002	0.002	-0.009	-0.56	0.11
30	16.000	0.000-14.142	1.049	1086.4	1406.5	540.1	84.9	0.975	0.941	0.999	0.116	0.941	0.001	0.001	-0.010	-0.61	0.07
31	17.000	0.000-14.142	1.051	1087.8	1406.5	540.7	84.9	0.992	0.954	0.998	0.091	0.954	0.001	0.001	-0.010	-0.60	0.06
33	18.000	0.000-14.142	1.046	1084.3	1405.9	538.8	85.0	1.013	0.974	0.999	0.051	0.974	0.002	0.002	-0.010	-0.57	0.09
34	19.000	0.000-14.142	1.043	1083.9	1407.8	540.3	85.0	1.031	0.986	0.998	0.025	0.986	0.001	0.001	-0.009	-0.54	0.08
36	20.000	0.000-14.142	1.049	1086.4	1408.5	540.8	85.0	1.048	0.999	0.998	-0.001	0.999	0.002	0.002	-0.008	-0.46	0.10
37	21.000	0.000-14.142	1.052	1089.2	1407.1	541.5	85.1	1.068	1.012	1.000	-0.025	1.012	0.002	0.002	-0.005	-0.28	0.10
38	22.000	0.000-14.142	1.050	1087.4	1408.3	541.2	85.0	1.086	1.028	0.998	-0.058	1.028	0.002	0.002	0.001	0.04	0.11
39	23.000	0.000-14.142	1.053	1090.2	1408.5	542.4	85.1	1.108	1.042	0.998	-0.086	1.042	0.002	0.002	0.007	0.38	0.09
40	24.000	0.000-14.142	1.048	1085.7	1406.3	539.5	85.4	1.073	1.020	0.998	-0.042	1.020	0.002	0.002	-0.001	-0.05	0.11

DATE 8-MAR-78 PROJECT NO P41C-N0C

ARO, INC.

AEDC DIVISION

A SVERDRUP CORPORATION COMPANY

PROPULSION WIND TUNNEL

ARNDL AIR FORCE STATION, TENNESSEE

TEST PART REX10-6 ALPHA CONFIG 22

IC-532 426 3.002 5.00 SURVEY ALPMS 1602 0.01

DATE 2-20-78 AEDC PROPULSION WIND TUNNEL
TRANSONIC 4T

POINT	XT	YT	ZT	M	VM	PT	O	TT	ML	VML/VM	PTL/PT	CPL	UT/VM	VT/VM	WT/VM	AATL	SWTL
2	-6.000	14.142	0.000	1.053	1090.0	1408.0	542.3	84.8	1.058	1.004	0.999	-0.008	1.004	0.004	0.003	0.16	0.20
3	-5.000	14.142	0.000	1.052	1088.9	1408.4	541.9	84.8	1.055	1.002	0.999	-0.005	1.002	0.003	0.003	0.16	0.19
4	-4.000	14.142	0.000	1.047	1084.5	1405.6	538.9	84.7	1.046	0.999	1.000	0.002	0.999	0.003	0.003	0.15	0.18
5	-3.000	14.142	0.000	1.052	1088.4	1406.2	540.9	84.7	1.054	1.002	1.000	-0.005	1.002	0.002	0.002	0.12	0.14
6	-2.000	14.142	0.000	1.052	1088.5	1406.3	541.0	84.8	1.052	1.000	1.000	-0.000	1.000	0.002	0.002	0.12	0.13
7	-1.000	14.142	0.000	1.047	1084.9	1406.2	539.4	84.7	1.045	0.998	1.000	0.004	0.998	0.002	0.003	0.18	0.14
8	0.000	14.142	0.000	1.050	1086.9	1406.4	540.5	84.4	1.047	0.997	1.000	0.005	0.997	0.003	0.003	0.17	0.15
9	1.000	14.142	0.000	1.052	1088.6	1407.5	541.0	84.5	1.040	0.991	0.999	0.018	0.991	0.004	0.003	0.18	0.24
10	2.000	14.142	0.000	1.052	1088.9	1404.9	540.7	84.6	1.012	0.968	1.000	0.064	0.968	0.009	0.003	0.16	0.54
11	3.000	14.142	0.000	1.051	1087.9	1406.8	541.0	84.6	1.017	0.973	1.000	0.054	0.973	0.012	0.002	0.11	0.73
12	4.000	14.142	0.000	1.052	1087.9	1407.1	541.2	84.3	1.013	0.969	1.000	0.061	0.969	0.013	0.001	0.05	0.78
13	5.000	14.142	0.000	1.054	1090.0	1406.1	541.7	84.5	1.016	0.970	1.000	0.059	0.970	0.014	0.000	0.01	0.80
14	6.000	14.142	0.000	1.048	1084.8	1405.7	539.3	84.4	1.035	0.990	1.000	0.019	0.990	0.017	0.001	0.07	0.97
15	7.000	14.142	0.000	1.053	1089.6	1405.4	541.2	84.7	1.045	0.994	1.000	0.013	0.994	0.017	0.001	0.05	0.98
16	8.000	14.142	0.000	1.050	1087.0	1406.0	540.3	84.6	1.051	1.001	0.999	-0.003	1.001	0.017	0.001	0.08	0.95
17	9.000	14.142	0.000	1.048	1085.0	1405.3	539.2	84.5	1.059	1.009	1.000	-0.017	1.009	0.014	0.003	0.16	0.81
18	10.000	14.142	0.000	1.050	1086.7	1404.2	539.5	84.4	1.070	1.015	1.000	-0.030	1.015	0.012	0.003	0.17	0.68
19	11.000	14.142	0.000	1.050	1086.6	1404.4	539.5	84.5	1.081	1.024	1.000	-0.048	1.024	0.009	0.004	0.21	0.51
20	12.000	14.142	0.000	1.052	1088.5	1404.6	540.4	84.6	1.092	1.031	1.000	-0.061	1.031	0.006	0.004	0.25	0.31
22	13.000	14.142	0.000	1.054	1090.6	1408.1	542.7	84.6	1.100	1.035	0.998	-0.072	1.035	0.002	0.006	0.30	0.12
23	14.000	14.142	0.000	1.045	1086.4	1407.7	540.6	84.7	1.086	1.039	0.998	-0.059	1.029	0.003	0.000	0.01	0.18
24	15.000	14.142	0.000	1.050	1087.2	1407.1	540.8	84.7	1.087	0.966	0.999	0.066	0.966	0.019	0.002	0.09	1.12
25	16.000	14.142	0.000	1.051	1090.0	1407.5	542.1	84.8	1.011	0.966	1.000	0.067	0.966	0.019	0.005	0.24	1.11
27	17.000	14.142	0.000	1.050	1087.6	1406.6	540.7	84.9	1.025	0.980	1.000	0.040	0.980	0.014	0.009	0.53	0.83
28	18.000	14.142	0.000	1.052	1088.6	1407.6	541.6	84.7	1.048	0.997	0.999	0.002	0.997	0.009	0.011	0.66	0.51
29	19.000	14.142	0.000	1.050	1087.6	1407.7	541.0	85.0	1.087	1.029	0.999	-0.058	1.028	0.000	0.015	0.81	0.02
30	20.000	14.142	0.000	1.052	1088.6	1406.8	541.2	84.8	1.121	1.053	0.998	-0.108	1.053	-0.009	0.018	1.00	-0.48
33	21.000	14.142	0.000	1.049	1086.3	1407.4	540.3	85.0	1.141	1.070	0.997	-0.143	1.070	-0.020	0.023	1.21	-1.06
35	22.000	14.142	0.000	1.053	1090.1	1406.5	541.7	85.0	1.142	1.068	0.996	-0.138	1.067	-0.019	0.022	1.19	-1.00
36	23.000	14.142	0.000	1.053	1090.3	1407.7	542.2	85.1	1.063	1.008	0.999	-0.017	1.008	0.004	0.019	1.07	0.23
37	24.000	14.142	0.000	1.050	1087.4	1407.3	540.7	85.1	1.035	0.988	0.999	0.021	0.988	0.006	0.014	0.83	0.33

DAT
FILM